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THE
J. Chas. McCullough
Seed Co.
1936

**230-232 E. Fourth Street
Cincinnati, Ohio**

Parkway 2600



COSMOS - Orange Flare
1935 All-America Gold Medal Winner. A
lovely new variety which is literally a flare
of Orange. Pkt., 15c.

"EMERALD" Lawn Seed

Tested for purity and growing qualities for your protection

"Emerald" Lawn Seed is composed of the best qualities Kentucky Blue Grass, Red Top, White Clover and other fine grasses. (It does not contain any timothy seed, better known as hay seed). We combine these grasses because they grow quickly and protect the Blue Grass, which is slower to germinate, thereby giving not only a permanent lawn but a good sod in six weeks. We have made a study of lawns and our experiments have shown that for quick and permanent results our "Emerald" Lawn Grass Seed has never been excelled. We know that "Emerald" Lawn Seed will give satisfaction wherever a fine velvety turf is wanted, except in dense shade.

Quantities

For New Lawns. 1 lb. sows 250 sq. ft. (10x25 ft.). An acre requires approximately 100 pounds.

For Old Lawns. It will take about half as much seed as for a new lawn, depending on how thick a stand of grass there is, usually requiring 35 to 50 lbs. per acre for renovating.

Making Lawns

Preparation. The soil should be deeply spaded or plowed, thoroughly pulverized and raked fine and smooth, removing all roots, stones, clods, trash, etc. If not properly graded it should be done now, allowing for water to drain

● *There is None Better*

off and not stand in pools. If the lawn is made of clay from recent excavations, it should be covered with 3 to 4 inches of good rich garden soil before the seed is sown.

Fertilizers. Sacco Plant Food, Loma, Vigoro, Bone Meal or Pulverized Sheep Manure are thoroughly satisfactory for lawns. Unless stable manure is well decomposed it contains weed seeds. Work the fertilizer into the soil at time of sowing seed.

Sowing. Seed can be sown in the spring from February to May or in the fall from August to October. To get it evenly distributed half the seed should be sown one way, then cross and sow balance at right angles. The seed should be covered by light raking or harrowing and then well rolled.

Where Weeds Come From. Owners of weed-ridden lawns wonder where these lawn enemies come from. Dandelion and crab grass seeds are distributed by the wind. The source of many weed seeds can be traced to impure lawn seed, bought because it was low priced. **Sow Emerald —Start Right.**

"HOW TO MAKE AND MAINTAIN A LAWN"
Sent Free On Request.

1/2 lb., 20c; 1 lb., 35c; 3 lbs., \$1.00; 5 lbs., \$1.50; 10 lbs., \$2.75; 20 lbs., \$5.00



Quality GRASSES

For All Soils and Purposes

We supply in this vicinity nearly all of the cemeteries, public parks, golf courses, and other places where considerable quantities of grass seed are used and we are prepared at all times to furnish the highest quality seeds for all purposes. We will be pleased to estimate on any special mixture that may be required.

SHADY NOOK LAWN SEED. Many beautiful lawns are marred by bare spots under trees, shrubbery, and near buildings. Shady Nook is composed of an excellent selection of fine grasses that will withstand such conditions better than those in our other mixtures. It is important that soil fertility and moisture supply is well provided in places getting but little sunshine. **Per 1/2 lb., 30c; 1 lb., 50c; 3 lbs., \$1.25; 5 lbs., \$1.75; 10 lbs., \$3.25; 20 lbs., \$6.00.**

HILLSIDE or TERRACE LAWN SEED. For high, dry situations where moisture and poor soil are conditions to be contended with. It is composed of grasses that will succeed fairly well under these conditions and produce short green turf. **Per 1/2 lb., 20c; 1 lb., 35c; 3 lbs., \$1.00; 5 lbs., \$1.50; 10 lbs., \$2.75; 20 lbs., \$5.00.**

QUEEN CITY LAWN SEED. This mixture can be depended on to produce a beautiful and permanent lawn. It is composed of re-cleaned grass seeds adapted to production of thick turf and will give good results. **Per 1/2 lb., 20c; 1 lb., 30c; 3 lbs., 75c; 5 lbs., \$1.15; 10 lbs., \$2.00; 20 lbs., \$3.80.**

WHITE DUTCH CLOVER (*Trifolium repens*). Valuable for lawns. It does well on all soils, especially where lime is present.

ASTORIA BENT, RHODE ISLAND BENT, COLONIAL BENT (*Agrostis tenuis*). An excellent all-round bent for lawns, greens, parks and playing fields; grows on wide range of soils; spreads mainly by underground root stalks or rhizomes, making a deep reinforced sod. It seldom produces many stolons or surface runners, thus lessening the amount of top-dressing and watering. Sow about 5 lbs. to 1000 square feet.

SEASIDE or COOS COUNTY BENT (*Agrostis maritima*). A superlative bent for putting greens and lawns, ranked high by U. S. Golf Association for putting surface, producing a luxuriant matted growth. It is one of the most vigorous stoloniferous creepers although this characteristic does not usually show up till the second year, after which it makes a fine turf of uniform color and texture. Sow about 5 lbs. to 1000 sq. ft.

MIXED GERMAN BENT. As the name implies it is composed of a mixture of different varieties of bents. It is a general purpose grass for greens, lawns and fairways.

BERMUDA (*Cynodon dactylon*). 35 lbs. per bu. A very rapid creeper. Used in the South. Not very hardy North. Sow 5-8 lbs. per acre.

BLUE GRASS, CANADIAN (*Poa compressa*). 14 lbs. per bu. For general use, inferior to Kentucky Blue Grass. Superior in dry, shady or impoverished soils. It does not make a good turf as it produces a large amount of stems and comparatively little foliage. Good upland pasture grass.

BLUE GRASS, KENTUCKY (*Poa pratensis*). 14 lbs. per bu. Largely used for lawns and when once established, lasts indefinitely. An excellent pasture grass. Deep rooting and attractive color. For lawns, sow 3 to 4 bu. per acre; for pastures 1 1/2 to 2 bu. per acre.

BROME GRASS (*Bromus inermis*). 14 lbs. per bu. A hardy perennial, the seed of which may be sown from spring to fall. It is especially valuable for pasture, the vigorous root stalks forming a firm sod. Brome Grass is more drought resistant than ordinary eastern meadow grasses and does not require a heavy good soil, but thrives on poor land. Usually sown broadcast at the rate of 20 lbs. per acre.

CRESTED DOG'S TAIL (*Cynosurus cristatus*). 21 lbs. per bu. Very much esteemed for lawns and mixtures in many of the Northern States, producing a quick growth of short grass, which is of little forage value and has many stems. 50 lbs. per acre.

FESCUE, CHEWINGS (*Festuca chewings*). 24 lbs. per bu. New Zealand grown. This grass succeeds in all kinds of soils. Excellent shade grass particularly in light soils. 40 lbs. to the acre. On putting greens, sow 8 lbs. to 1000 square feet.

FESCUE, FINE LEAVED (*Festuca capillata*). A variety of sheep fescue. It is an excellent shade grass, tolerant of heat and dry soil. Dark green in color.

FESCUE, MEADOW or ENGLISH BLUE (*Festuca elatior*). 24 lbs. per bu. Sometimes known as Evergreen Grass. Used for pastures and lawns. 24 lbs. per acre if sown alone. In mixture from 12 to 18 lbs.

FESCUE—SHEEP, ORDINARY RED, or HARD (*Festuca ovina*). 14 lbs. per bu. There is a slight difference between the strains of Sheep, Ordinary Red (not Creeping) and Hard Fescue, but of recent years the strains have been substituted so regularly and have been so mixed that we are offering only one strain. Excellent for pastures and withstands much heat and drought. If allowed to grow tall it forms tufts. Requires alone 1 1/2 to 2 bu. per acre. In mixture 1/2 to 1 bu.

ORCHARD GRASS (*Dactylis glomerata*). 14 lbs. per bu. Particularly suited to upland, loamy or moderately stiff soil. It ripens three weeks ahead of Timothy and is excellent to sow with Red Clover. Usually yields two crops and is one of the most valuable grasses for both pasture and hay. Requires 1 1/2 to 2 bu. per acre; if with Red Clover, 1 to 1 1/2 bu. of Orchard Grass to 5 or 6 lbs. of Red Clover. For seed the same quantity of Red Clover and 3/4 of a bu. of Orchard Grass.

RED TOP, FANCY RECLEANED (*Agrostis alba*). 30 lbs. per bu. Sometimes called Herds Grass. Grows best in rich, moist soils. Particularly suited to low and wet situations, and affording a splendid pasturage and fair crops of hay. Ripens at about the same time as Timothy and excellent to sow with this grass if pasturing of meadows is contemplated. Requires 6 to 8 lbs. alone or 3 to 4 lbs. in mixtures per acre.

RED TOP, ORDINARY or UNHULLED (*Agrostis alba*). 14 lbs. per bu. Sow at the rate of 30 lbs. per acre. See Fancy Red Top.



ROUGH STALKED MEADOW (*Poa trivialis*). 14 lbs. per bu. This grass is known as "The blue grass of the shade," being particularly adapted for shady places. Same family and characteristics as blue grass. For lawns 4 to 5 bu. per acre; for pastures, sow 1 1/2 to 2 bu. per acre.

RYE GRASS, DOMESTIC. 24 lbs. per bu. Also known as Western Rye Grass. It is inclined to be an annual and is especially valuable for use in lawn mixtures as a nurse crop; it is a quick growing grass and succeeds well on almost any type of soil.

RYE GRASS, ITALIAN (*Lolium multiflorum*). 24 lbs. per bu. Similar to Perennial Rye Grass but little quicker maturing. Good for a quick hay crop. If alone, requires 1 1/2 bu. per acre. In mixture, 2 to 3 pecks per acre.

RYE GRASS, PERENNIAL (*Lolium perenne*). 24 lbs. per bu. Often called English Rye Grass. A quick growing grass which is most suitable for mixtures, pastures, hay and lawns. Succeeds well on almost any soil not water sogged and affords good, quick nutritious grazing. If alone, requires 1 1/2 bu. per acre. In mixture, from 2 to 3 pecks per acre.

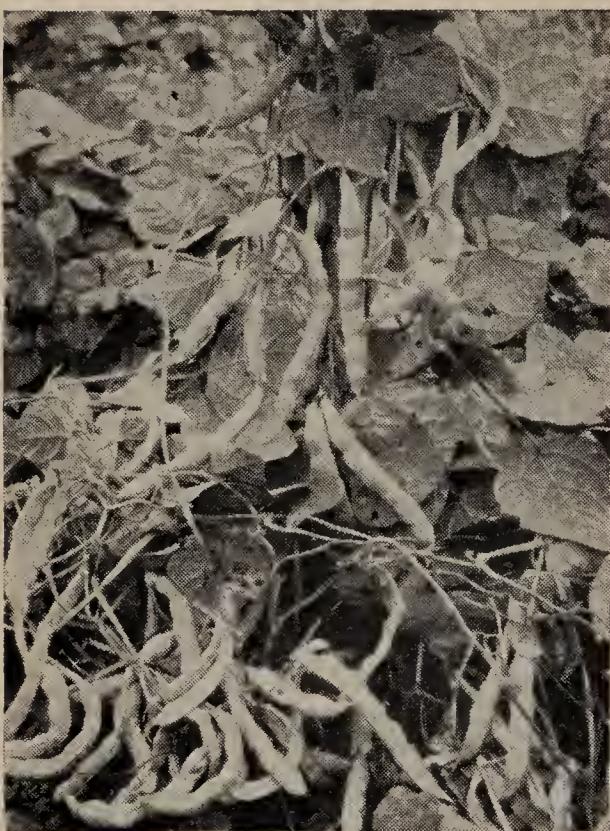
TALL MEADOW OAT GRASS (*Arrhenatherum elatius*). 11 lbs. per bu. A very fine grass which is suitable for upland soils and especially valuable for mixture with Orchard Grass. It ripens about the same time and forms a better sod. Cut when in bloom it is very nutritious and it affords wonderful amount of pasturage. Requires alone 1 1/2 to 2 bu. per acre; in mixture from 1/2 to 3/4 bu.

TIMOTHY (*Phleum pratense*). 45 lbs. per bu. It is the most desirable of all grasses for hay but should not be grazed as the trampling of cattle hoofs causes it to die. In this section Timothy is best suited to low, flat or alluvial soils where there is a fair amount of moisture but does not grow well in water-sogged soil. Requires alone, 1 peck per acre; if with Clover, 8 lbs. Timothy and 5 to 6 lbs. of Clover.

PRICES ON ALL GRASS SEEDS

Are subject to market changes. We will be pleased to quote firm prices on request. Orders entrusted to us will be filled at the lowest price on the day received.





Logan Giant Beans.



Early Wonder Beet.



Pritchard Tomato.

New and Old Models of SPECIAL MERIT

FULL MEASURE (Perfection Stringless) BEANS

Dwarf Green Podded Variety

A very desirable round-podded variety with pods 6 to 7 inches long, which are solid, meaty, brittle and stringless. It is a little later than Stringless Green Pod and is a splendid Bean for home or market use. **Pkt., 10c; 1/2 lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50.**

LOGAN GIANT BEANS—Pole Green Podded Variety

If you want really delicious, tender, fine flavored snap Beans, be sure to plant some Logan Giants. There is no Bean of its class that we have grown that is of quite as fine quality. Many of our customers consider it the best quality Pole Bean they have ever grown and will have nothing else. The pods, produced in clusters and in great abundance, are light green, 6 to 7 inches long, broad, round and slightly curved. Extremely tender and of fine quality. From ten days to two weeks earlier than Improved Kentucky Wonder. **Pkt., 10c; 1/2 lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.75.**

MARION MARKET CABBAGE

A yellows-resistant strain of Copenhagen Market. The result of special breeding against yellows or wilt disease, an infection frequently attributed to hot or dry weather. Our stock seed is selected rigidly and continuously for type and resistance. We offer only first generation seed from such stock. The round head and short stem will permit close planting. Earliest of all yellows-resistant varieties. **Pkt., 10c; oz., 60c; 1/4 lb., \$1.75.**

GOLDEN ACRE—The Earliest Cabbage

This is without doubt the earliest Cabbage grown and it matures a week before Early Jersey Wakefield. The heads are round as a ball, medium in size (4 to 5 lbs.), and very firm. The plants are compact so that they can be set close together. Practically every plant will make a perfect head and all the heads mature within a short space of time. This variety has become the most popular and profitable market variety for early crops. **Pkt., 10c; oz., 35c; 1/4 lb., \$1.00.**

GOLDEN CROSS BANTAM SWEET CORN

Wilt Resistant—High Yield—Uniform

We strongly recommend this new hybrid Sweet Corn. This variety was introduced jointly by the United States Department of Agriculture and Purdue University Agricultural Experiment Station. Highly resistant to Stewart's Disease and very prolific. Stalks sturdy, about 6 feet high, with exceptionally broad, dark green leaves. Ears measure 7 1/2 to 8 inches long, 10- to 14-rowed, slightly lighter yellow than Golden Bantam. Kernels medium in width and depth. This hybrid is extremely uniform in plant and ear characteristics and in maturity. **Pkt., 15c; 1/2 lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.**

EARLY WONDER BEET

The most popular early bunching Beet. To satisfy critical growers, who demand an ideal in shape, color and season, is quite a difficult matter. Ideals vary considerably, but we have pleased a very critical trade with our stock of Early Wonder Beet. The shape is a flattened globe; flesh tender, sweet and attractive, deep red with very indistinct zones—particularly the light zones so undesirable in many stocks; tops are small and slender. In season it is about 55 days from seeding to market stage. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.00.**

SPINACH

Blight-Resistant Savoy—For Fall Sowing

This strain of Norfolk or Bloomsdale Savoy is quite resistant to the blight or "yellows" which is destructive in some localities. A valuable variety in localities where blight injures fall Spinach. **Pkt., 5c; 1/4 lb., 15c; 1 lb., 40c.**

TABLE QUEEN SQUASH

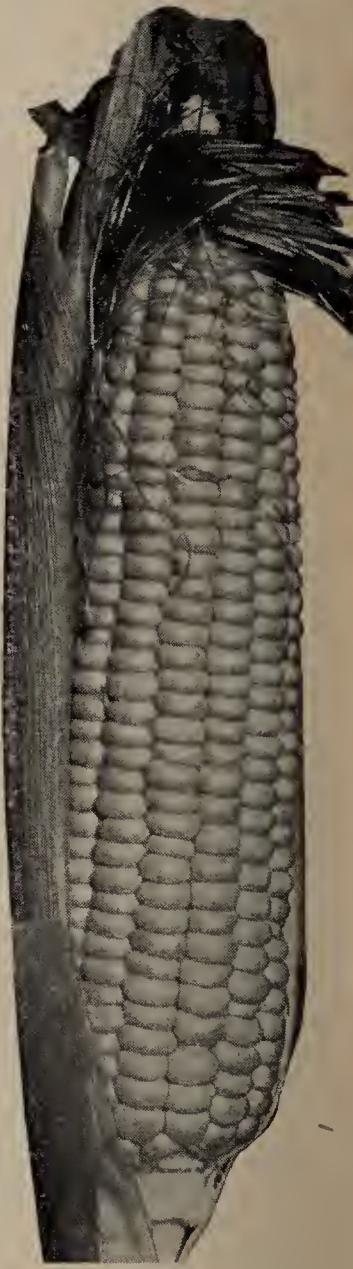
The Individual Squash. Also known as Des Moines, Acorn and Queen Ann. This little Squash has become one of the most popular kinds for "individual" baking. The fruit is dark green, 4 to 5 inches long and 4 inches in diameter, deeply ribbed and with a smooth, hard shell. It is of a convenient size for baking in the shell. The flesh is light yellow, sweet, of fine flavor, dry and free from stringiness. The Squash will keep all winter and should be allowed to ripen thoroughly before using. We are pleased to offer a strain that has proved to be very uniform in size, type and dark green color. **Pkt., 5c; oz., 15c; 1/4 lb., 50c; 1 lb., \$1.50.**

PRITCHARD TOMATO (Scarlet Topper)

This new Tomato has proven itself to be an early main crop variety. A scarlet, disease-resistant variety originated by the late Dr. F. J. Pritchard of the U. S. Department of Agriculture, in 1931. It is a cross between Marglobe and Cooper's Special, and has inherited fine qualities from each parent; heavily productive. Fruits large, smooth, globular, solid, with thick walls and cross sections. **Pkt., 10c; oz., 50c; 2 oz., 85c; 1/4 lb., \$1.50.**



Table Queen Squash.



Golden Cross Bantam Sweet Corn.



SPARGEL (Ger.) ASPARAGUS SPARAGIO (It.)

One ounce of seed will sow 75 feet of row and produce about 250 plants.

From Seeds Sow seed as early as possible in the spring. The plants should be set in the permanent bed when one or two years old. The Asparagus may be cut the third year after setting out the roots.

1. WASHINGTON—The Best Variety. This variety has proven as nearly rust-proof as is possible to produce Asparagus. It is much in demand on account of its heavy yield and fine flavor. The stalks are rich, dark green color, tinted darker at tips. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 60c.

Fresh Dug Asparagus Roots Roots can be set from February to May, or in the fall, in October or November. 100 roots plant a bed 100 feet long and are sufficient for a medium garden. An acre requires 4000 to 7000 roots.

WASHINGTON. (Rust-resistant). A new rust resisting pedigree Asparagus. It stands ahead of all others in size, vigor, tenderness and quality. 2-yr. roots, 25 for 60c; 100 for \$2.00, postage extra.

Washington Asparagus.

GROWING ASPARAGUS. The size of Asparagus depends more on high fertilization than on the variety. Well-drained, rich soil, where it will not be in the way when the rest of the garden is plowed is best. Two-year-old roots give quickest results. Plow or dig out a trench 18 inches wide, 6 to 10 inches deep, making the trenches 6 to 8 feet apart. In the bottom of the furrow use 4 to 6 inches of well-rotted manure, then cover with 2 or 3 inches of good soil. The roots are set 12 to 15 inches apart, and should be spread out carefully and afterwards covered with about 2 inches of soil. Do not cover with too much soil the first year,

but the following years they can be hilled up. If white Asparagus is wanted the beds should be thrown higher than if wanted for green Asparagus. Do not cut Asparagus too late in the spring, as it exhausts the plant. The most practical growers on the day they stop cutting, throw down the beds with a plow, then harrow the ground, leaving the plants to grow. In November the tops are cut off and a mulch of manure put on the top of the rows, which is afterwards worked into the soil, when the beds are thrown up in the spring. For a small garden, Asparagus roots can be set in double rows instead of single.



Full Measure Dwarf Beans.

• BOHNEN (Ger.) BEANS FAGINOLI (It.)

Dwarf or Bush Varieties

Always popular and easily grown. If planted every 2 or 3 weeks, commencing after all danger of frost has passed and continuing until about August 15th, a supply will be kept up during the whole summer.

One pound plants about 100 feet. An acre requires 1 to 1½ bushels. Half pound planted every 3 weeks is sufficient for a medium garden. They are ready for table from 40 to 50 days after planting.

Culture. To produce the best results, Beans should have a good soil and deep or thorough tillage before planting and shallow cultivation afterwards to prevent too much disturbing of the roots. For field culture plant in rows 2½ feet apart, dropping the Beans 3 to 4 inches apart in the rows, covering about 2 inches with soil. In small gardens, rows may be 18 inches apart. Up to the time of blooming, cultivate often, but never while the vines are wet, and do not disturb the roots, especially after blooming, as they will blight and the crop will be reduced. Constant picking extends bearing.

Insect Remedies—For Mexican Bean Beetle, dust the under side of leaves with Magnesium Arsenate Dust Mixture.

For fungous diseases and rust, spray with Bordeaux Mixture.

Green Podded Beans

3 TENDERGREEN. One of the very best of the round, green-podded Beans. Fleshy pods about 6 inches long, strictly stringless and of fine quality. Very productive and closely resembles an improved Full Measure Bean.

Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50.

4 IMPROVED EARLIEST RED VALENTINE. A well-known very early sort. Pods of medium length, about 4½ inches long, of medium green color, curved, cylindrical, with crease in the back, very fleshy, crisp and tender. Vines medium to large. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

5 STRINGLESS GREEN POD. A very handsome, long, cylindrical, medium maturing green Bean. Pods larger than those of Valentine and straighter. Very fleshy and remain crisp and tender longer. Vines of vigorous growth and productiveness. A very desirable sort for home gardens and largely grown for market.

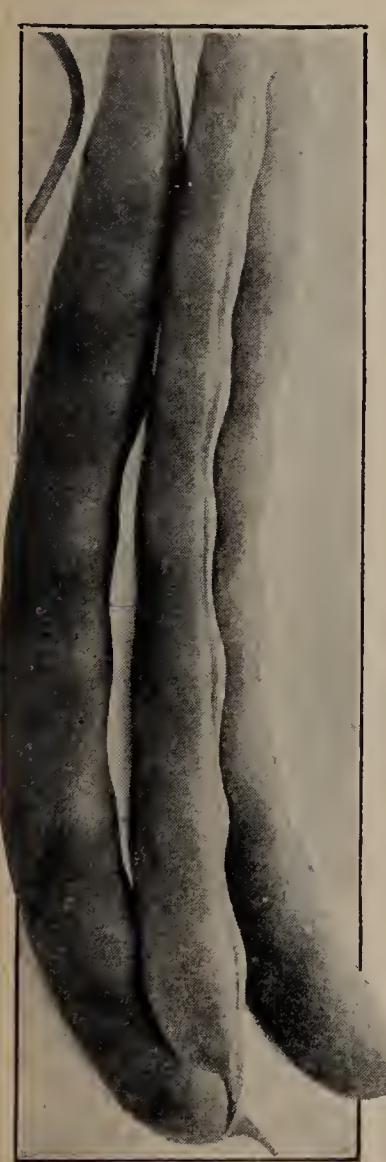
Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

6 GIANT STRINGLESS GREEN POD. A highly productive and very handsome sort. Vines vigorous, spreading. Pods large, round, averaging larger and straighter than the Stringless Green Pod, but a few days later.

Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

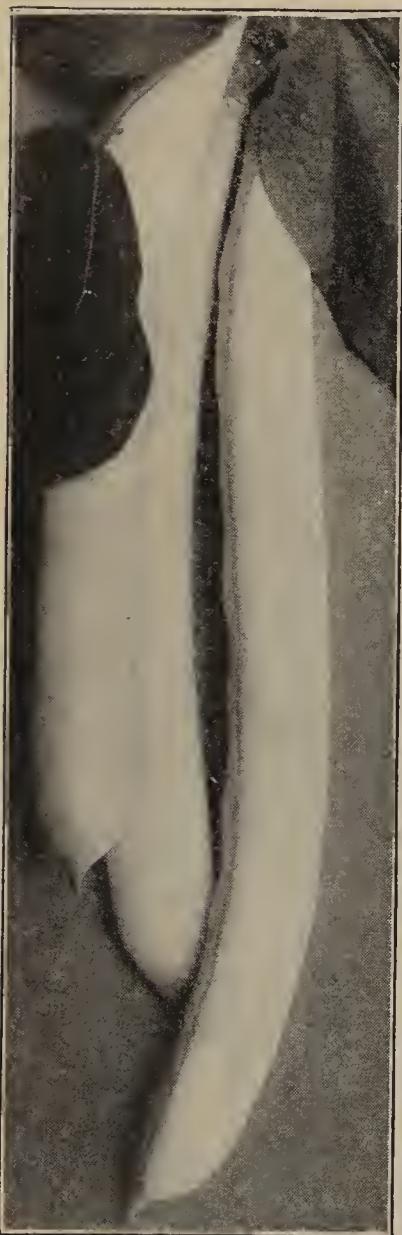
7 DWARF HORTICULTURAL. Very popular in most localities, especially for market, as they are valuable both for snap Beans and shelling. They become fit for use as shelled Beans early, and in this condition the Beans are large, easily shelled and equal to Lima Beans in quality. The vines are very productive, compact and upright in growth, with large leaves. The pods are 5 to 5½ inches long, broad, thick, curved and have splashes of bright red on yellowish green.

Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.



Giant Stringless Green Pod.

GROW BETTER VEGETABLES WITH SACCO PLANT FOOD.



Improved Golden Wax.

Green Podded Dwarf Beans—Continued

8 FULL MEASURE (Perfection Stringless). See page 2. A very desirable round-podded variety with pods 6 to 7 inches long, which are solid, meaty, brittle and stringless. It is a little later than Stringless Green Pod and is a splendid Bean for home or market use. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50.

9 REFUGEE (Late or 1000 to 1). One of the best sorts for late planting and especially desirable for canning and pickling. The vines are large, spreading, very hardy, with small, smooth light green leaves. The Beans are borne in great profusion, pods being about 5 to $5\frac{1}{4}$ inches long; cylindrical, slightly curved, medium green, afterwards becoming light yellow, slightly splashed with purple. Pkt., 10c; $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

19 ROUND POD KIDNEY WAX. Long, round, handsome, stringless pods of large size, very solid and full of meat, crisp, brittle, and free from rust. Earliest and best Wax Bean. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

20 WARDWELL'S KIDNEY WAX. A variety which matures a little later than the Golden Wax, yields large crops of long, nearly straight, broad pods of light golden yellow color. They are extremely showy, consequently are ready sale and most profitable for market gardeners and an excellent variety for growing in home gardens. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

21 PENCIL POD BLACK WAX. One of the most popular varieties for home use and market. The pods are about $4\frac{1}{2}$ inches long, slightly curved, round, very brittle and tender. They are very fleshy, clear golden yellow and remain tender a long time. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

10 BOUNTIFUL. An improved long Yellow Six Weeks; earlier, very much larger and more tender. It is very hardy, extremely early, very prolific, and bears continuously for several weeks. Pods are flat, absolutely stringless, rich green, very large and handsome. For very early or very late planting it is very desirable for both home garden and market. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50.

12 TENNESSEE GREEN POD. A dwarf, early snap Bean, very hardy and more capable of withstanding inclement weather than most other sorts. The vines are large, somewhat spreading, prolific. The pods are very long (often 6 to 7 inches) flat, irregular in shape, of dark and vivid green color. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

Dwarf Wax Beans

22 CURRIE'S RUST-PROOF WAX. A variety which is claimed to be rust-proof. The vines are very vigorous, hardy, productive. Pods, light yellow, similar in shape to Golden Wax, $5\frac{1}{2}$ to 6 inches long. Matures early. Splendid for market and home use. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

23 IMPROVED GOLDEN WAX. An early maturing variety, very productive. Vines erect, compact, bearing pods well off the ground. Pods nearly straight, broad, flat, golden yellow, very fleshy and waxlike, usually $4\frac{1}{2}$ to 5 inches long. A good sort for home garden, either for table use or pickling. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

INOCULATION FOR BEANS. Excellent results will be obtained by treating the seeds of Beans with NITRAGIN INOCULATOR before planting. Easily done. We have it in convenient size for small gardens. (See page 53).

Dwarf Beans—For Shelling Only

Usually profitable as a farm crop, especially in northern sections.

Culture. Plant in rows about $2\frac{1}{2}$ feet apart. The Navy requires about $\frac{1}{2}$ bushel per acre. Other sorts about a bushel.

15 DWARF WHITE NAVY. The well-known small oval white variety so largely used in all sections. $\frac{1}{2}$ lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 75c.

16 DWARF WHITE MARROW. Beans oval, about double as large as Navy. Vines vigorous and productive. $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

17 DWARF WHITE KIDNEY. Large, white kidney-shaped, slightly flattened. Pods about 6 inches long, large and coarse. Beans excellent quality either green or dry. $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

18 DWARF RED KIDNEY. Similar to above, but dark pink color. Very salable. $\frac{1}{2}$ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

Pole or Cornfield Beans

Culture. Pole beans are more sensitive to cold and wet than Dwarf varieties, hence should not be planted too early. Use poles from 6 to 8 feet long in rows 4 feet apart, placing the poles 3 feet apart in the row. If the poles are slanted slightly to the north, the vines climb better and the pods are more easily seen. In home gardens three poles are usually placed wigwam style and tied at the top. Around each pole plant 4 to 6 beans from 1 to 2 inches deep. When ready to run, thin to 4 plants and see that they all climb the same way, as if trained wrong they will not climb. If to be planted in corn, this should be done after the corn is well started and has had 2 or 3 workings. One pound will plant 100 hills. An acre requires about 15 pounds of seed. One pound will plant 100 hills.

24 IMPROVED KENTUCKY WONDER (Or Old Homestead). A well-known variety and one of the most popular of all Pole Beans, especially in the middle sections. The vines are very vigorous, heavy and very prolific, hence not desirable for planting in corn. Pods are of irregular shape, bright green, very long, often reaching 9 to 10 inches. They are very tender, crisp and stringless when young, but become irregular and spongy as the beans ripen. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

25 WHITE SEDED KENTUCKY WONDER (St. Louis Perfection White). Similar to the above, excepting that the beans are different shape and solid white. It is early maturing, very desirable for snap beans and an excellent variety for green shelling and unsurpassed in quality as baked beans. Very profitable for market gardeners and highly praised in all sections. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

26 MISSOURI WONDER. An extremely prolific variety, maturing in the same season or a little later than Improved Kentucky Wonder. A green podded variety of high quality. The pods are nearly as long as those of Improved Kentucky Wonder, but slightly broader and flatter and lighter in color. When in condition for snap beans, the pods are nearly stringless. Pkt., 10c; $\frac{1}{2}$ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50.

27 LOGAN GIANT. See full description on page 2. The finest quality of the pole green podded varieties. Pkt., 10c; $\frac{1}{2}$ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.75.



Improved Kentucky Wonder Pole Beans.

Pole or Cornfield Beans—Continued

29 RED SPECKLED CUT-SHORT or CORN HILL. A very popular variety, especially for planting among corn. It will give a good crop without the use of poles. The vines are not as heavy as Kentucky Wonder, being medium size, vigorous, twining loosely, with dark colored leaves. Pods are 3 to 3½ inches long, straight, flat, fleshy and of good quality. As they mature the pods become light yellow tinged with red, the beans showing distinctly through the pods.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

30 HORTICULTURAL POLE or SPECKLED CRANBERRY. A very popular variety for general purposes, either as a late green shelled bean or for snaps. The pods are of medium length, 4½ to 5 inches long, broad; when young pale green, gradually changing to yellowish green striped or splashed with red. Vines are moderately vigorous, with large light colored leaves. Can be grown on corn or on short poles. As shelled beans they equal Limas in flavor and are excellent to use as dry beans for boiling or baking.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

31 WHITE CREASEBACK. An extremely early variety, which produces nearly all its pods at the same time. The vines are medium size and vigorous, and in rich soil wonderfully productive, bearing round, fleshy pods in clusters of from 4 to 12, which makes it extremely easy to gather. Pods are about 5 inches long, comparatively straight, attractive, light green, very fleshy, with a crease down the center.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

32 SCOTIA or STRIPED CREASEBACK. A hardy and very productive green-podded cornfield bean. The vines are sturdy and of good climbing habit with small-medium deep green leaves. The pods are long, about 6 inches, very cylindrical or completely rounded, distinctly crease-backed, very fleshy and of excellent quality. The color, when in condition for use as snaps, is light, silvery green, becoming tinged with purple as the pods mature. This variety is especially suitable for growing in corn for snaps.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

33 TENNESSEE WONDER, or EGG HARBOR. Large green pods, curved, tinged with purple and wrinkled, depressed between each of the eight or nine seeds. One of the largest of all cultivated beans.

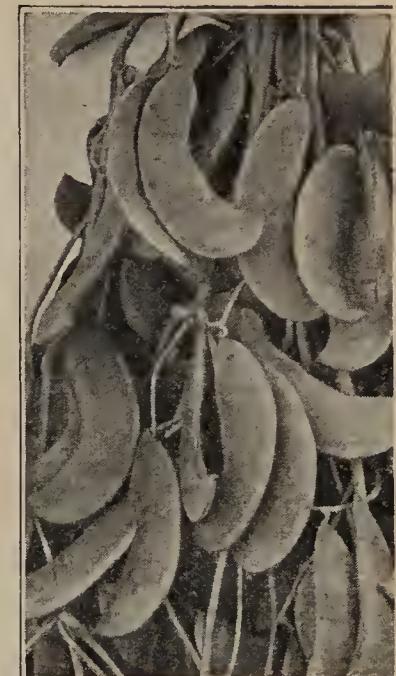
Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

34 LAZY WIFE. A somewhat late maturing variety, bearing medium green pods in large clusters. Pods are 5½ to 6½ inches long, broad, thick, fleshy and entirely stringless. When young they have a rich flavor which is retained until they are nearly ripe. An excellent sort for either snap green, shelling, or using as dry beans.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

35 McCASLAN. The pods, produced in great abundance, are a rich, dark green color, measuring about 10 inches long, rather flat and slightly curved. Fine for use as a snap sort, being entirely stringless when young. If pods are picked before maturing, vines bear till frost. If pods are allowed to mature, they produce a good sized white bean for winter use.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.



Burpee's Bush Lima.

Pole Beans—Wax Pod

36 OHIO WAX POLE. Pods usually 7 inches long, solidly meaty and entirely stringless; commences to bear when scarcely higher than bush variety, and keeps on producing until killed by frost.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50.

Lima Beans—Dwarf or Bush

39 FORDHOOK BUSH LIMA. A very vigorous and erect growing variety, bearing its pods well above the ground in large clusters. Pods are medium green, about 5 inches long and contain 4 to 5 large thick beans of exceptionally fine quality. We consider this one of the best of the large seeded kinds.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.50.

40 BURPEE'S BUSH LIMA. A bush form of the Large White Lima type. Plants are somewhat dwarf but very productive. Pods are medium green, broad, containing 3 to 4 very large flat beans of the best quality. Seed large, flat, white, with slightly greenish tinge.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

41 HENDERSON'S BUSH LIMA. An exceedingly productive variety of dwarf habit. Commences bearing very early and continues to grow and set pods until stopped by frost. The vines are without runners, somewhat dwarf, very productive. Beans small, white and most excellent quality either for green shelling or as dry beans.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

Pole Lima Beans

43 KING OF THE GARDEN. A favorite sort on account of its large size and abundant yield. The beans are of greenish color, very tender and delicious.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

44 EXTRA LARGE WHITE POLE LIMA. A choice variety of the Large Lima. Pods and beans of large size and a good cropper. Quality unsurpassed.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

45 SMALL LIMA or SIEVA. Also called Butter or Carolina. Not as large as the other varieties but a good bearer and about 10 days earlier.

Pkt., 10c; ½ lb., 20c; 1 lb., 30c; 2 lbs., 55c; 5 lbs., \$1.25.

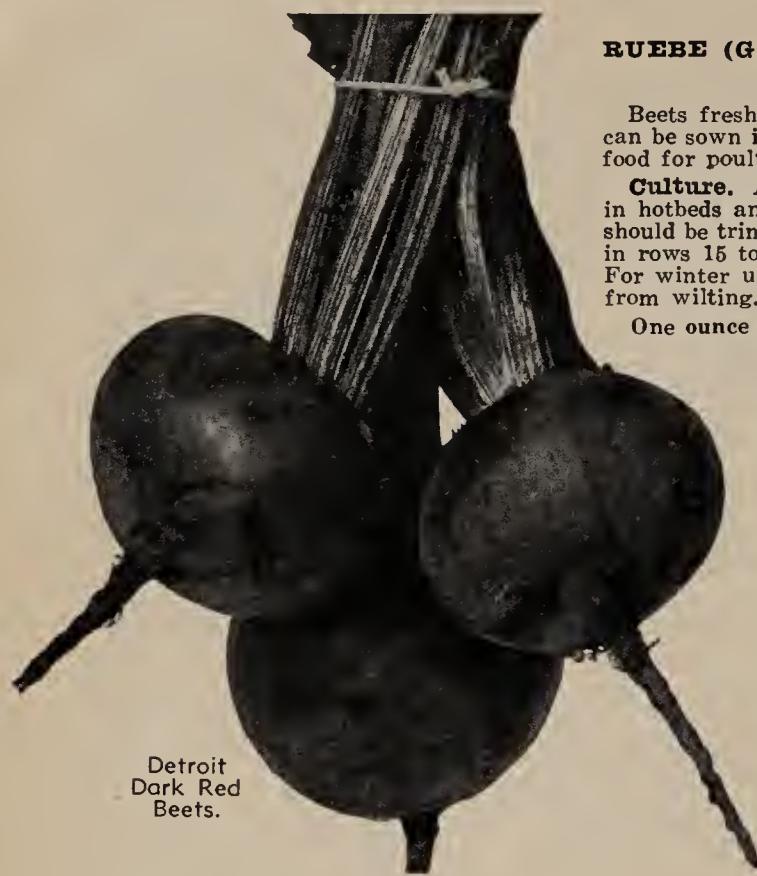


King of the Garden Pole Lima.

THE HOME VEGETABLE GARDEN

By E. M. Freeman

A book which shows how to grow fresh, crisp vegetables in your own garden. Full of practical details for laying out the garden, planting and growing vegetables successfully. Eight illustrations, 214 pages. \$1.75.



Detroit
Dark Red
Beets.

52 EDMAND'S EARLY BLOOD TURNIP. A dark red, nearly round variety which is slightly flattened. Exterior, dark red; interior, purplish red with a little zoning. Crisp, tender, sweet, and one of the best for main crop, being an excellent keeper. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.00.**

53 IMPROVED EARLY BLOOD TURNIP. A selected stock of this old and very popular variety. It is of deep red color, zoned with lighter shade; roots round, slightly flattened and excellent for summer and autumn use. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.00.**

54 DEWING'S BLOOD TURNIP. A medium early sort which is very tender and sweet and a good keeper. Roots are dark purplish red, turnip shape with a medium size tap root. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.00.**

55 LONG SMOOTH BLOOD. A splendid late variety producing large, smooth, rather slender roots which grow largely under ground. It has few side roots and is good shape and color, exterior being dark purple, almost black, with delicate red flesh which is tender and sweet. Produces very good crops so that it is a profitable grower for stock feeding. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.00.**

FUTTER RUEBEB (Ger.)

Beets for Stock Feeding

Too little attention is paid to this important crop for winter feed for stock. They yield enormously, sometimes making 15 tons to the acre; are very nutritious, not only improving the general condition of stock but greatly increase both the quantity and quality of milk in cows. A variety of feed is always beneficial to all animals and the Mangel-Wurzel and Sugar Beets afford one of the best crops for this purpose, as they are superior in feeding qualities to turnips and are a much larger yielding crop. All farmers and especially stock raisers should grow them extensively.



Mangels.

RUEBEB (Ger.)

TABLE BEETS

BARBABIETOLE (It.)

Beets fresh from the garden are always more tender and delicious than those that are shipped. They can be sown in succession for different seasons and if too many are produced for table use, make excellent food for poultry and stock.

Culture. A deep loamy or sandy soil is best suited to Beets. If wanted very early they can be sown in hotbeds and transplanted in the open ground when the weather has moderated, but the outer leaves should be trimmed off when transplanting is done. The earliest outdoor sowing is done in March or April, in rows 15 to 18 inches apart, thinning or transplanting the plants to 3 or 4 inches apart in the rows. For winter use, sow in June or July. Roots can be stored in pits or cellars covering with sand to keep from wilting.

One ounce sows 60 feet of drill. Ten pounds 1 acre. Ready for use 60 to 75 days after sowing.

46 EARLY WONDER. See page 2. This is the best Beet for early use. The highest quality for the home garden. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.00.**

47 CROSBY'S IMPROVED EGYPTIAN. An improved sort which is very popular with the market gardeners on account of its quick growth, extreme earliness, and general good qualities. The tops are small, roots flattened but slightly globe shaped and very smooth. Exterior bright red and inside deep vermilion-red zoned with a lighter shade. It becomes fit for use earlier than any other variety and is much superior to some of the older sorts. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.00.**

48 DETROIT DARK RED. Produces medium size globe-shaped roots which are very smooth and of dark blood red color. Very desirable for bunching. Comparison with other varieties proves that **Detroit Dark Red** is the most uniform Beet in size and most attractive in color. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25.**

49 EARLY ECLIPSE. The tops are small, roots bright deep red, smooth, round or slightly top-shaped with a very small tap root. It is splendid for bunching; is very sweet, crisp and tender, especially when young. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.00.**

50 NORWOOD BLOOD TURNIP. A superb early main crop Beet, both for market and the home garden. The roots are of neat turnip shape, growing 3 or 4 inches in diameter, smooth, and entirely free from small rootlets. Flesh deep blood-red, tender, and of rich flavor. Foliage is small, of a rich bronze color. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.00.**

51 EXTRA EARLY EGYPTIAN. It is the earliest sort and largely used for forcing. Has very small tops and produces flat, medium size roots which are very dark red, moderately thick and distinctly flat on the bottom. Flesh is dark, purplish red, firm, crisp, and tender. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.00.**

Try
GOLDEN CROSS BANTAM
Hybrid Sweet Corn
 See Page 9.
 You Won't Be Disappointed.



SWISS CHARD

56 SWISS CHARD. This variety is grown for its tops only which are boiled like spinach. It does not make edible roots but produces yellowish green leaves; the stalks should be cooked and served like asparagus. Makes a splendid summer vegetable and is becoming popular. Known also as the Silver or Spinach Beet. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.00.**

BARBABIETOLE (It.)

Culture. Sow in the latter part of April, May, or June, at the rate of **six pounds to the acre**, in rows 2 1/2 to 3 feet apart and thin to 8 inches apart. If seed is soaked 24 hours before sowing, it germinates more quickly but it should be put in when the ground is moist. The crop is harvested before frost and packed away in barns or cellars. They can also be put into piles or ridges 5 to 6 feet high and covered with straw or litter to keep from freezing too much. When the winter weather comes, throw on a layer of 4 to 6 inches of earth. A protection of boards to shed the heavy rains is also desirable.

57 MAMMOTH PRIZE RED MANGEL. Particularly suited to deep soils but succeeds on any medium or heavy soil. The roots are very large, uniform, and are enormously productive. Flesh is white, tinged with red. One of the best for general purposes. **Oz., 10c; 1/4 lb., 25c; 1 lb., 60c.**

58 GOLDEN TANKARD MANGEL. A variety which produces very large roots, oval shaped, the bottom being larger than the top. It is light grey above the ground; deep orange-yellow below, flesh yellow zoned with white. A splendid sort for shallow soil and produces enormously on rich ground. **Oz., 10c; 1/4 lb., 25c; 1 lb., 60c.**

59 LANE'S IMPERIAL SUGAR. A very popular variety for stock and one which will succeed well in this latitude. The roots grow to a large size and it is more like a Mangel-Wurzel in character but the flesh is sweeter and more tender, being finer grained. Especially valuable for poultry. **Oz., 10c; 1/4 lb., 25c; 1 lb., 60c.**



Italian Green Sprouting Broccoli.

Yellows-Resistant Cabbage Seed

Both varieties listed below are the result of special breeding against Yellows or Wilt Disease, an infection frequently attributed to hot or dry weather. Our stock seed is selected rigidly and continuously for type and resistance. We offer only first generation seed from such stock.

62 MARION MARKET. See page 2. Highly resistant to yellows; round head, short stem, will permit close planting. Earliest of all yellows-resistant varieties selected from Copenhagen Market.

Pkt., 10c; oz., 60c; 1/4 lb., \$1.75.

63 YELLOWS-RESISTANT HOLLANDER. This is a strain of Hollander or Danish Ballhead. A heavy yielding, round head, late type.

Pkt., 10c; oz., 50c; 1/4 lb., \$1.25.

First Early Sorts

64 GOLDEN ACRE. See page 2. This is an early, round-headed Cabbage which closely resembles Copenhagen Market in type. As its name implies, it is a money-maker. It is 8 to 10 days earlier than Copenhagen Market but is smaller and can be planted closer. Because of its earliness and fine quality it commands a higher price than any round-headed Cabbage.

Pkt., 10c; oz., 35c; 1/4 lb., \$1.00.

65 EARLY JERSEY WAKEFIELD. One of the earliest and by far the surest heading of first early Cabbages. Most gardeners depend upon it entirely for their extra early crop. It is exceedingly hardy, resists cold and unfavorable conditions and is the most likely to yield satisfactory results. Plants are compact, with erect conical heads and few outer leaves. Stems short; heads of medium size, very solid and of excellent quality.

Pkt., 5c; oz., 25c; 1/4 lb., 70c.

66 EARLY WINNINGSTADT. One of the best conical or sharp heading sorts which is compact and of excellent quality. Quick maturing. It is the hardiest not only as regards frost but will suffer less from excessive wet, drought, insects, or disease than any other sort of its class.

Pkt., 5c; oz., 25c; 1/4 lb., 70c.

68 COPENHAGEN MARKET. The earliest round-head or flat Cabbage yet introduced. The heads are exceptionally large and it has a very short stem and few outer leaves—a most excellent sort for home gardens and market gardeners. On account of extreme earliness, it is destined to become one of the leading sorts grown, as a flat Cabbage fills barrels or crates faster than sharp head Cabbage and will yield the grower more returns. We predict for Copenhagen Market an extensive cultivation. Our stock is from one of the best Denmark growers.

Pkt., 5c; oz., 30c; 1/4 lb., 90c.

Red Cabbage

82 MAMMOTH ROCK RED. A variety used mainly for pickles and sauerkraut. It is highly esteemed.

Pkt., 5c; oz., 30c; 1/4 lb., 90c.

Broccoli

60 ITALIAN GREEN SPROUTING (Calabrese). The truest heading strain. A packet will produce about 200 plants; an ounce about 2000. Broccoli is grown the same as cabbage or cauliflower. Simply sow the seed in the open ground in May and transplant the plants when large enough. Plant forms a large, solid head which remains green. When the central head is cut, numerous sprouts develop from the leaf axils, each sprout terminating in small, green heads. A popular delicacy for the entire family.

Pkt., 10c; oz., 40c.

KRAUT (Ger.)

CABBAGE

CAVOLO CAPUCCI (It.)

Late Varieties

77 PREMIUM LATE FLAT DUTCH. A very superior strain of this well-known, popular Cabbage which is exceptionally reliable for main crop planting. It is short stemmed; has rather large early leaves, very showy heads and produces uniformly large, flat, deep, solid heads of splendid quality. It is an excellent keeper and can be relied upon as thoroughly satisfactory.

Pkt., 5c; oz., 25c; 1/4 lb., 70c.

78 LARGE LATE DRUMHEAD. One of the oldest and most popular of late sorts, producing large, rounded heads. It has been grown for many years and ours is an improved stock. The heads are somewhat more globe-shaped than the Late Flat Dutch. Leaves large, loose, spreading. An excellent keeper.

Pkt., 5c; oz., 25c; 1/4 lb., 70c.

79 DANISH BALLHEAD or HOLLANDER. It produces very large, solid heads, which are globular in shape, has few but rather large, thick, bluish green leaves. Heads are borne on short stems, are of medium size, round, very solid and stand shipment better than any other late sort. It is one of the very best keepers and is much desired for kraut. Our stock is Denmark grown and very select.

Pkt., 5c; oz., 30c; 1/4 lb., 90c.

81 AMERICAN PERFECTION DRUMHEAD SAVOY. Too little attention is paid to the Savoy Cabbage in this locality, as for home gardens it is unquestionably the most desired of all Cabbages. It is used almost entirely for late planting and attains its greatest perfection in flavor after frost, when it becomes as tender and even more delicious than cauliflower. The heads are of medium size, borne on short stems, and not as large as the ordinary late Cabbage, hence will stand closer planting. Our stock of this is American grown and will produce uniformly large heads for this variety. We strongly recommend it to be more extensively grown both for home use and market.

Pkt., 5c; oz., 30c; 1/4 lb., 90c.

Chinese Cabbage

Also called "Celery Cabbage."

An ounce of seed will sow 40 to 50 feet of row, a packet 3 feet.

This vegetable of the cabbage family has become extremely popular. The large mid-ribs of the leaves are perfectly white and very crisp and tender. It is excellent when used as a salad, being of a very delicate flavor slightly resembling raw cabbage but more delicious. It is so easily raised that everyone who has a garden should enjoy it.

The seed should be sown not earlier than the first of July in rows 2 1/2 feet apart, and the plants thinned 18 to 20 inches apart in the rows. If sown early it soon runs to seed and is useless. The crop matures in 8 to 10 weeks.

83 CHIHILI. This is the earliest variety of Chinese Cabbage and heads more evenly than any other kind. The heads are pointed, very firm, and when matured are often 18 inches long, blanched pure white inside and are of very fine quality. Chihili is rapidly superseding the older varieties, as the attractive heads sell readily, making this a very profitable crop to grow. Our strain of Chihili is very uniform.

Pkt., 10c; oz., 25c; 1/4 lb., 75c.



Golden Acre Cabbage.

Brussels Sprouts

ROSENKOHL (Ger.)

CAVALO DI BRUSSELS (It.)

One ounce makes about 2000 good plants.

A vegetable of the cabbage family which is largely used in the fall. It should be more largely grown in home gardens. It produces stalks about 2 feet high, which are covered with small heads resembling miniature cabbage. These are cooked and served like cabbage and are very tender and delicious.

Culture. Same as for late cabbage, but plants are set closer together.

61 PERFECTION. A semi-dwarf variety and one of the best. Pkt., 10c; oz., 25c.

CARROTN (Ger.)

CARROTS

CAROTA (It.)

An easily grown, useful and most healthful vegetable which should come into more extensive use. They add flavor to soups and meats, besides being healthful, delicious and to an extent ornamental, and should be more largely used. In addition to their table uses, they make excellent pickles, and any that are left over are nutritious food for all kinds of stock and poultry.

Culture. Carrots do best in rich, light loamy soil, and where the soil is shallow or stiff, select the short growing varieties, rather than the longest rooted sorts. For early crop sow in March; for main crop in April or May, in rows 18 inches apart, cultivating and weeding as soon as the plants are up. Continue in cultivation until maturity. Cover the seed half an inch deep and see that the soil is pressed firmly, thin 4 to 6 inches apart. Ounce sows 300 feet of row; 2 to 4 pounds per acre.

88 OXHEART (or Guerande). A short, thick growing variety, especially adapted to stiff or hard soils. Roots 4½ to 5 inches long, very thick, ending abruptly in a small tapering root. Flesh bright orange, finest quality, an excellent sort for market, home use and fine for stock feeding and poultry.
Pkt., 5c; oz., 15c; ¼ lb., 35c.

90 CHANTENAY. A medium early variety, orange-red color, crisp and tender. Roots smooth, thick, 5½ to 6 inches long, uniformly stump rooted but tapering slightly. One of the best in quality and productiveness for either home garden or market and especially desirable for heavy soils, because it can be harvested easily.
Pkt., 5c; oz., 15c; ¼ lb., 35c.

91 HALF-LONG DANVERS. A deep orange, tender variety, producing roots of medium length, 6 to 8 inches long, tapering uniformly to a blunt point. They are very productive and well adapted to nearly all classes of soil for main crop planting.
Pkt., 5c; oz., 15c; ¼ lb., 35c.

93 IMPROVED LONG ORANGE. A well-known popular sort, well adapted for loamy or deep soil, on which are produced very large crops. Roots deep orange color, usually about 12 inches long, 3 inches in diameter at the crown, tapering to a point. An excellent sort for table use, markets and particularly adapted for stock feeding. Roots tender and of good quality.

Pkt., 5c; oz., 15c; ¼ lb., 35c.



Early Snowball Cauliflower.

CAULIFLOWER

BLUMENKOHL (Ger.)

CAVOLOFLORE (It.)

One of the most delicious vegetables in cultivation but on account of its difficulty in growing, not so general in the average garden as it should be. Anyone, however, can be reasonably sure of success if good seed is obtained and the cultural instructions given below followed.

Culture. For early spring or summer crop sow the seed in January or February in hot-beds. When the plants have four leaves, transplant to cold frames for development. Toward the end of March or early part of April, set in open field and cultivate the same as cabbage. If the soil gets very dry, water well when possible. When the plants are set in the garden, the ground should be rich; if not so, a little sheep manure or well-rotted manure should be worked into the soil before the plants are set out. The plants should be thoroughly worked during the growing season and when the heads commence to form, the leaves should be tied over the flowers to protect from the sun and make them white. For fall use sow at the same time as late cabbage and treat in the same manner. Cauliflower will not head in very hot weather—hence for fall use, too early sowing is not desirable.

One-fourth ounce produces about 500 plants. Three ounces will make enough plants to set 1 acre.

Cauliflower plants Supplied in Season. Early Snowball and Early Dwarf Erfurt. We do not send these plants by mail.

96 EARLY SNOWBALL. Unquestionably the earliest maturing strain of short leaf type of Cauliflower. It is well adapted for forcing or winter use for early crop and is one of the most popular of all sorts, both for the market gardener and for home use. The plants are compact, leaves small, and can be adapted for close planting. Produces large size, pure white flowers, of most excellent quality. Our strain is of selected Denmark grown and can be relied on as one of the most satisfactory of all.
Pkt., 25c; oz., \$1.75.



Chantenay Carrots.

BLEICH (Ger.)

CELERY

SEDANO (It.)

Culture. For the earliest crop the seed should be sown in hotbeds from the middle of February to the end of March. For main crop sow in open ground March or April, according to the weather, in rows 15 inches apart. The seed is sometimes slow to germinate, and in dry and hot weather water well. Careful weeding by hand will have to be done until the young plants get started. Seed sown in beds should be transplanted. When the plants are set in the open field, trim the tops off and put in rows about 5 feet apart, setting plants 6 to 8 inches apart. Cultivate constantly during the growing season, and as the crop matures it must be earthed up or blanched. Sometimes this is done by placing two boards upright, close to the plants and filling in dirt both on the sides and between the plants. The stalks are handled by hand but the soil must not be allowed to get in the center. Sometimes Celery is set in beds about 4 feet wide, 6 inches between plants, and 12 inches between rows, the earth being thrown out on each side of the bed. Then as it grows it is earthed in for blanching. An ounce of seed produces about 3,000 plants.

99 IMPROVED WHITE PLUME. An extra early and very handsome sort which is very popular with market gardeners, especially for very early crop. Leaves are light, bright green at the base, shading nearly white at the tip. As plants mature, the inner stem and leaves turn white and consequently require less earthing and blanching before they are in condition to use for market.
Pkt., 5c; oz., 30c; 2 ozs., 50c.

100 GOLDEN PLUME or WONDERFUL. Early and very desirable for home and market garden. Plants medium sized; stocky, full hearted and compact; thick, solid stalks blanch readily and are of the finest table quality.
Pkt., 10c; oz., 50c; 2 ozs., 90c.

101 GOLDEN SELF BLANCHING. This is not only a very early variety but one of the best for home use or market. It is not quite so early as White Plume but so much finer quality that it is generally preferred as a main crop sort. Plants are medium size, compact and stocky, with yellowish green foliage. As they mature, the inner stem turns a beautiful golden yellow color and blanching is easily accomplished. Being of handsome color, very crisp, tender, free from stringiness and of fine flavor, it is the leading sort grown.
Pkt., 10c; oz., 50c; 2 ozs., 90c.

102 GIANT PASCAL. A green leaf variety of the Golden Self Blanching type, and one of the best for fall and early winter use. It blanches a beautiful yellowish white, is very solid and crisp and has a fine nutty flavor. Stalks of medium height, thick, solid, flattening towards the base and one of the best for main or late planting.
Pkt., 5c; oz., 30c; 2 ozs., 50c.

103 CELERIAC or TURNIP-ROOTED CELERY. Used for its roots only, which have a fine, sweet, nutty celery taste. It is used either boiled or raw, has a delightful flavor and can be used in soups, salads or as a table vegetable. Culture about the same as for celery.
Pkt., 5c; oz., 25c; ¼ lb., 75c.

Celery Plants supplied in season, (June, July and August). We do not send these plants by mail.

Collards

One of the most popular Southern vegetables; largely used in place of cabbage. It is hardier and easier to grow than cabbage, can be grown on poorer soil and withstands insect attacks better. Although often sown during the spring and summer, the principal sowings are made in June, July and August, transplanted 2 feet apart in the row and given frequent cultivation. A most excellent vegetable for the late fall, winter and early spring. The flavor is improved by frost. Cultivate like late cabbage.

105 TRUE GEORGIA or SOUTHERN. Stands cold weather and adverse conditions splendidly and grows on land too poor to make a crop of cabbage.
Pkt., 5c; oz., 15c; ¼ lb., 35c.



Golden Plume Celery.

ZUCKER-MAIS (Ger.)

SWEET CORN

MAIS (It.)

Our Northern Grown Sweet Corn is far superior in quality and earliness to the same varieties raised from seed grown in the south and west where most of the sweet corn seed is grown.

One pound plants about 200 hills, 12 to 14 pounds to an acre. For succession, plant about every 2 weeks from April to the end of July; ready for the table 60 to 90 days from planting.

Culture. Garden-Field varieties can be planted at the end of March or early in April. Sugar or Sweet Corns are more tender and should not be planted until warm weather is settled and the ground becomes warm. Cultivate frequently and keep the ground free of weeds.

Yellow Varieties

108 GOLDEN CROSS BANTAM. Large, tender, luscious. See page 2. This variety was introduced jointly by the United States Department of Agriculture and Purdue University Agricultural Experiment Station. Highly resistant to Stewart's disease and very prolific. Stalks sturdy, about 6 feet high, with exceptionally broad, dark green leaves. Ears measure 7½ to 8 inches in length, 10 to 14 rowed, slightly lighter yellow than Golden Bantam. Kernels medium in width and depth. This hybrid is extremely uniform in plant and ear characteristics and in maturity. Pkt., 10c; ½ lb., 30c; 1 lb., 50c; 2 lbs., 90c; 5 lbs., \$2.00.

109 GOLDEN BANTAM. Selected Northern Grown. The most popular variety of yellow Sweet Corn ever offered; also one of the earliest and hardiest. It can be safely planted earlier than other varieties. The plants rarely grow over 3½ feet in height, and usually bear at least 2 ears, 5 or 6 inches long, on each stalk. Many people assert that Golden Bantam is the sweetest of all Corns; its plump, rich, cream-yellow kernels are tender, milky and delicious. All our Golden Bantam seed is northern grown, making it especially valuable for early planting.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

110 WONDER BANTAM. There has been an ever-increasing demand for an early Sweet Corn having all of the good qualities of Golden Bantam Sweet Corn, together with a larger ear and having about the same

maturing season. To accomplish this, Wonder Bantam has been introduced by the crossing of Early Wonder and Golden Bantam Sweet Corn. The stalks grow from 5 to 6 feet in height and have ears 8 to 10 inches in length filled with 8 rows of rich, golden colored kernels. It is a variety that will appeal to the critical market and home gardener.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

111 GOLDEN SUNSHINE. The earliest of the Golden Bantam type, maturing a week to 10 days earlier than that variety. More dwarf in habit than Bantam, with ears 6½ inches long, containing 12 rows of broad, yellow, sweet grains. Especially desirable for its extreme earliness.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

112 GOLDEN GIANT. It excels all other early varieties of Corn in size, productiveness and quality; and all the late varieties in quality and early maturity while equaling them in size.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

113 BANTAM EVERGREEN. A cross between Golden Bantam and Stowell's Evergreen and is a most excellent sort of fine quality. The ears average 8 inches long and are 12-rowed, the grain is rather broad and deep and of a rich golden yellow color.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

114 EARLY MINNESOTA. Very dependable, productive variety for home and market garden. Plants 6 feet tall, often with 2 ears. Ears 7 to 8 inches long, 8-rowed; uniform. Kernels white, fairly tender and sweet. 90 days.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

115 WHIPPLE'S EARLY WHITE. Of the narrow-grained Evergreen type, but ready for use much earlier. Ears 8 to 9 inches long, 16 to 18 rows of pearly white grains. The chief distinction of this variety is that it is by far the earliest of the narrow-grained Evergreen types and has a larger sugar content.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

116 EARLY EVERGREEN. An early strain of Evergreen of great value. This variety resembles the Stowell's Evergreen, but is ready for use much earlier and remains in good condition equally as long. The ears grow to a good size, usually about 7 inches long,

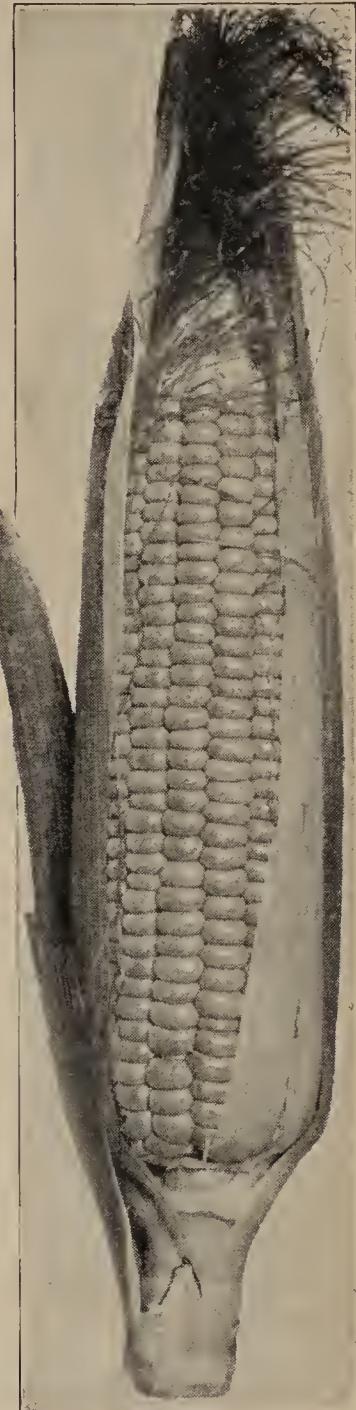
and contain from 16 to 18 rows of deep, sweet grains. Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

117 EARLY SHEFFIELD. The stalks are strong and vigorous, bearing one or two fine ears to a stalk. The ears are large and entirely free from smut. The grains are of medium size, 10- to 12-rowed, well filled to each end of the ear; juicy, and of a fine sweet flavor.

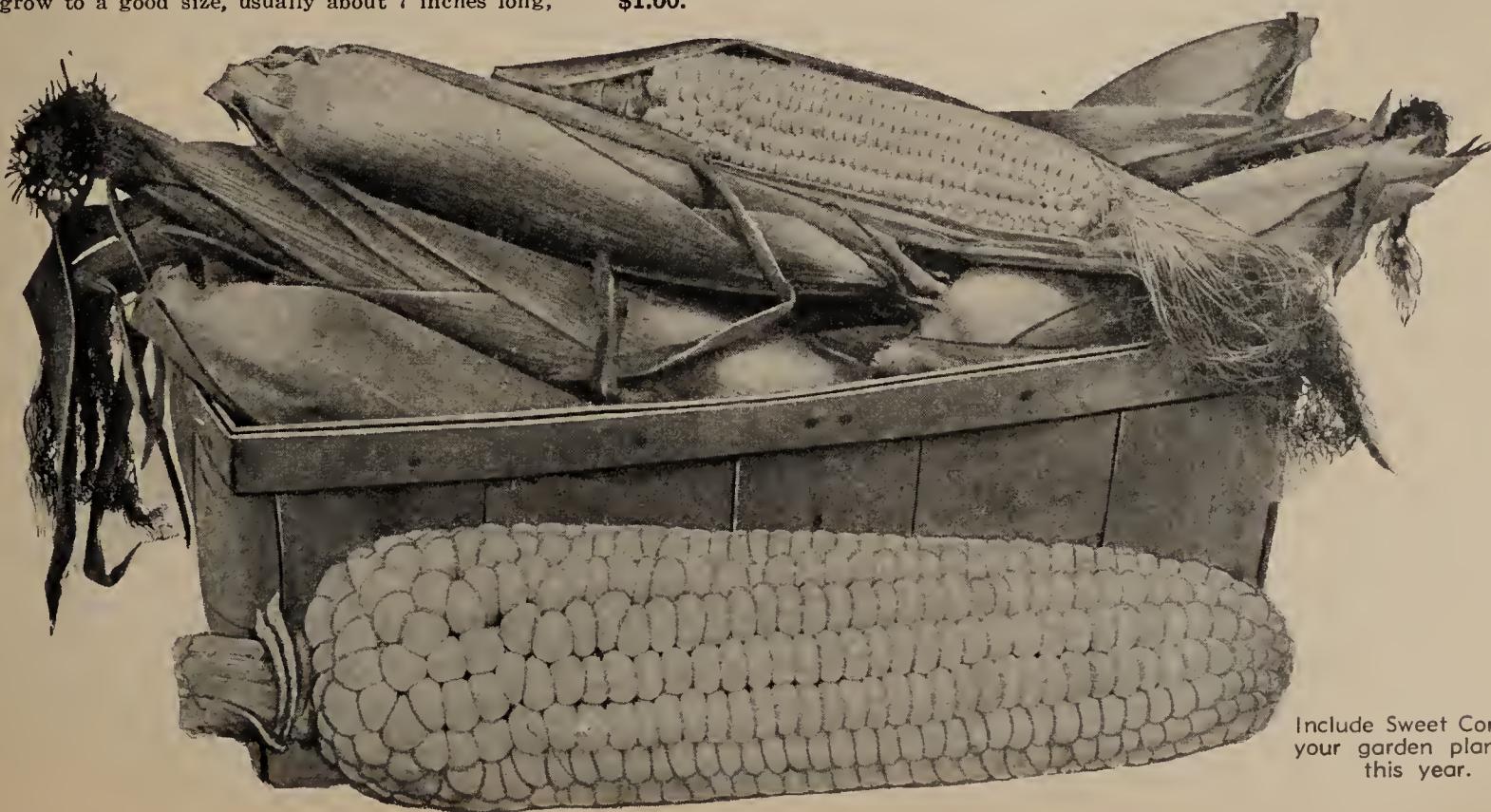
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

118 BLACK MEXICAN. For home use we consider this one of the best second early sorts where tenderness and sweetness are the qualities most desired. The stalks grow about 6½ feet high, producing ears usually 8 inches long and 8-rowed. The dry grain is dark bluish black. The ripe Corn on the cob is also bluish black, but if used young, this Corn cooks remarkably white. This is an interesting variety.

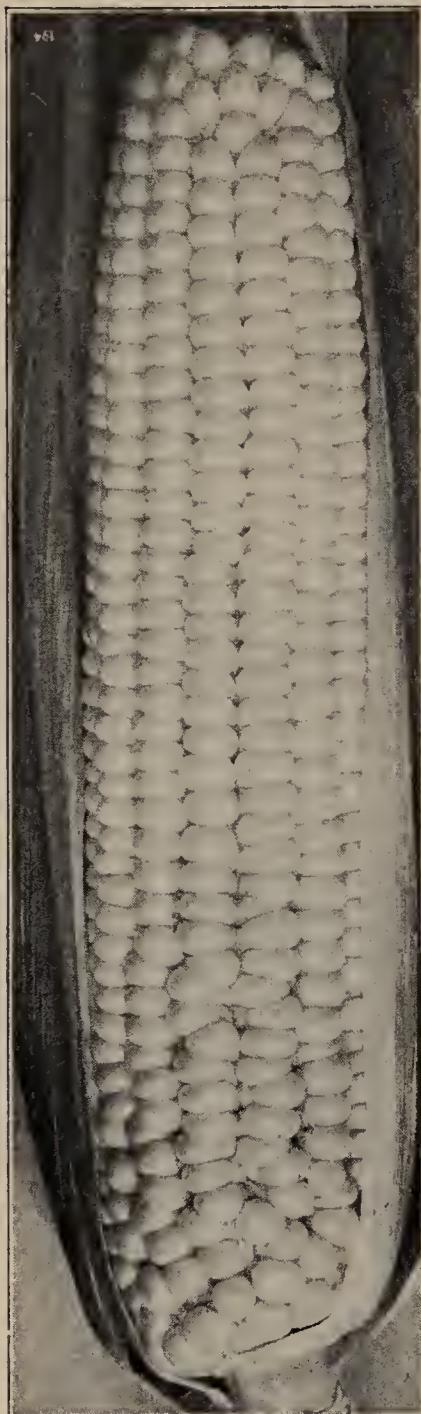
Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.



Golden Cross Bantam.



Include Sweet Corn in your garden plan — this year.



Stowell's Evergreen.

SEED CORN TREATMENT REDUCES DISEASE DAMAGE. Seed disinfection with Improved Semesan, Jr., will help greatly to prevent damage by diseases to the roots, stalks and the ears of field and sweet Corn. It protects seed against rotting, permits earlier planting, increases germination, controls blight and increases crop yields.

GURKEN (Ger.)

One ounce plants 50 hills; two pounds to one acre. Plant in April or May for early crop; ready for the table 50 to 75 days from planting.

Culture. Rich soil or one containing plenty of well-rotted manure is best; hence hills are usually made about 4 feet apart using manure or sheep manure well mixed with the soil. For very earliest crop the seed may be started in hotbeds, in pots, small paper boxes, or pieces of sod, grass side down, so that they can be readily transplanted to open ground without disturbing the roots. For earliest crop outdoors plant 8 to 10 seeds in hills or drills 4 feet apart. On cold nights or threatened frost they can be protected by pieces of paper weighted with earth; after danger of frost and destruction by insects, thin the plants to about four to the hill. For late crop plant from the end of May until July. Cultivate occasionally, keeping the grass and weeds out, and when the fruit is ready for use, pick whether wanted or not, as it will extend the life and productiveness of the vines.

134 LONGFELLOW. The Longfellow is a White Spine type, developed so that it would have the slender, dark green appearance of a hothouse cucumber but which could still be grown outdoors. Vines are vigorous and productive. Fruits 12 to 14 inches long and 2½ inches in diameter. Can be grown in the garden or greenhouse and stands shipping well.

Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.

135 IMPROVED EARLY WHITE SPINE. One of the best sorts for table use and probably the most popular sort grown by market gardeners and truckers. The vines are vigorous, producing fruit early and abundantly. Fruits are uniformly straight, about 8 inches long, vivid green color changing to and streaked a whitish green at the tip.

Pkt., 5c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.



WHITE VARIETIES OF SWEET CORN—Continued.

119 EARLY MAMMOTH. Resembling the well known Late Mammoth in general characteristics but 10 days to 2 weeks earlier and slightly smaller in size.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

120 HOWLING MOB. A variety a little later than Mammoth White Cory. Ears measure 7 to 9 inches in length, 12 to 14 rows; white grains. Stalks strong, of vigorous growth, 4½ to 5 feet in

height, have abundant foliage and usually produce 2 good ears to the stalk.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

121 KENDEL'S EARLY GIANT. A remarkably large-eared, second-early sort which is very popular in some sections. Ears are 8 to 9 inches long, 12-rowed; grains broad, rather shallow but the quality is good.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

Sweet Corn, Main Crop

irregular; the grains set very close on the cob. Ears are 8 inches long, large grains, very deep, sugary, tender and of fine flavor. This is becoming a very popular sort and in many sections is superseding the well-known Stowell's Evergreen.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

125 LATE MAMMOTH. The largest and latest of all Sugar Corns, producing ears which are about 11 inches long, 16 to 18 rowed. Grains are broad, somewhat short but of good flavor, sweet, tender and delicious. One of the best sorts for late crop, especially for market.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

126 CLUB ZIG-ZAG EVERGREEN. A late variety of Zig-Zag Evergreen Corn, the ear generally being twice the size in diameter of any sort and of a fine, sweet flavor.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

122 COUNTRY GENTLEMAN. Probably the most popular of all sorts for home gardens on account of its sweetness, tenderness and delicious flavor. Ears 7 to 8 inches long, round, medium size. Grains zig-zag or staggered, small in size but set close on the cob and very deep.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

123 STOWELL'S EVERGREEN. One of the standard main crop sorts which has long been popular with commercial growers and canners, and is one of the best for home gardens. It is hardy, thrifty, productive, very tender and sugary, and remains in edible condition longer than most other sorts. Ears 7 to 8 inches long, having 14 to 20 rows of very deep grain. Stalks 8 to 9 feet high, bearing 2 or 3 large ears.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

124 ZIG-ZAG EVERGREEN. A development of the Stowell's Evergreen which has become very popular. The rows instead of being straight are

127 EXTRA EARLY ADAMS. The earliest variety and extensively used for first

early table corn in the South. Stalks about 4 feet high with few leaves and without suckers. Ears short, very full, 12 to 14 rows, kernels white and smooth; an extremely hardy sort; can be planted close together and is usually popular.

Pkt., 10c; ½ lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 75c.

128 EARLY ADAMS. A little larger and later sort of about the same characteristics as Extra Early Adams. Stalks about 6 feet high, ears 12 to 14 rows and a good variety for second early or very late planting.

Pkt., 10c; ½ lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 75c.

Garden - Field Varieties

These are not Sugar Corns but valuable for their hardiness as they can be planted earlier and will mature quicker than Sugar Corns—hence, usually very profitable for market gardeners.

127 EXTRA EARLY ADAMS. The earliest variety and extensively used for first early table corn in the South. Stalks about 4 feet high with few leaves and without suckers. Ears short, very full, 12 to 14 rows, kernels white and smooth; an extremely hardy sort; can be planted close together and is usually popular.

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Pkt., 10c; ½ lb., 15c; 1 lb., 20c; 2 lbs., 35c; 5 lbs., 75c.

POP CORN

A very profitable crop in many sections and grown in enormous quantities. It is popularly "the boys' crop" and all gardens should have a small quantity.

129 WHITE RICE. ½ lb., 15c; 1 lb., 25c.

130 WHITE PEARL. ½ lb., 15c; 1 lb., 25c.

131 SOUTH AMERICAN LARGE YELLOW. ½ lb., 15c; 1 lb., 25c.

CORN SALAD

FELDSALAT (Ger.)

An excellent salad for winter and spring. The seed is sown in August or September, in drills 1 foot apart. Press on the soil to make it firm and it will germinate better. As freezing weather approaches, cover with straw or coarse litter. Seed can also be sown very early in the spring if on rich soil.

132 LARGE SEEDED. Round leaved, the best variety.

Pkt., 10c; oz., 20c; ¼ lb., 50c.

DOLCETTA (It.)

HOTKAPS

for
**BIGGER,
EARLIER CROPS!**

Only \$9.75 Per 1000

See Page 63 for Details

CUCUMBERS

CETRIOLO (It.)

One ounce plants 50 hills; two pounds to one acre. Plant in April or May for early crop; ready for the table 50 to 75 days from planting.

Culture. Rich soil or one containing plenty of well-rotted manure is best; hence hills are usually made about 4 feet apart using manure or sheep manure well mixed with the soil. For very earliest crop the seed may be started in hotbeds, in pots, small paper boxes, or pieces of sod, grass side down, so that they can be readily transplanted to open ground without disturbing the roots. For earliest crop outdoors plant 8 to 10 seeds in hills or drills 4 feet apart. On cold nights or threatened frost they can be protected by pieces of paper weighted with earth; after danger of frost and destruction by insects, thin the plants to about four to the hill. For late crop plant from the end of May until July. Cultivate occasionally, keeping the grass and weeds out, and when the fruit is ready for use, pick whether wanted or not, as it will extend the life and productiveness of the vines.

134 LONGFELLOW. The Longfellow is a White Spine type, developed so that it would have the slender, dark green appearance of a hothouse cucumber but which could still be grown outdoors. Vines are vigorous and productive. Fruits 12 to 14 inches long and 2½ inches in diameter. Can be grown in the garden or greenhouse and stands shipping well.

Pkt., 5c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25.

135 IMPROVED EARLY WHITE SPINE. One of the best sorts for table use and probably the most popular sort grown by market gardeners and truckers. The vines are vigorous, producing fruit early and abundantly. Fruits are uniformly straight, about 8 inches long, vivid green color changing to and streaked a whitish green at the tip.

Pkt., 5c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.

136 IMPROVED LONG GREEN. One of the most popular sorts for home gardens and in country districts for home markets. Fruits are very long, often 12 inches, slender and uniformly dark green color. It is rather late maturing. The vines are very vigorous and fairly productive. The matured fruits are excellent and tender for table use and both large and small can be used for pickling.

Pkt., 5c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75.

137 DAVIS PERFECT. A development by crossing the Improved Long Green with an English frame variety. It is dark, rich green color, slightly tipped with white at the end; has very few seeds and is excellent for slicing. Fruits are often 12 inches long, very slim and showy. Particularly fine for home gardens.

Pkt., 5c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.25.

Longfellow.

CUCUMBERS—Continued.

138 EARLY FRAME. A well known, short, green variety, producing quite abundantly, uniformly straight, moderate sized fruit. Valuable for very early planting or for pickling as it is more prolific than the large fruited sorts.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; 1 lb., \$1.25.

140 EARLY FORTUNE. The finest type of White Spine yet introduced. Early and very productive; fruits grow 9 inches long, slightly tapering, flesh white, firm and crisp with very few seeds; color dark green. Quality is excellent either when sliced for use at the table, or for making pickles.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; 1 lb., \$1.25.

141 JERSEY PICKLING. A variety shorter than Long Green, slender and produces very abundantly. Vines are vigorous and productive. A very popular main crop sort for market and commercial uses.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; 1 lb., \$1.25.

143 NICHOL'S MEDIUM GREEN. A variety intermediate in length between the White Spine and Long Green, producing straight, medium sized cylindrical fruits of dark green color, which are most excellent for slicing and extremely popular for pickling. Vines vigorous, productive. A very profitable variety for canners and commercial growers for late crop.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; 1 lb., \$1.25.

144 EARLY GREEN CLUSTER. Short and prickly; bearing in clusters; prolific; fine for bottling.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; 1 lb., \$1.25.

145 WHITE WONDER. Fruit, produced in clusters, is symmetrical, short, blocky and rounded at both ends; color ivory-white from time of forming until maturity; moderately productive.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c; 1 lb., \$1.25.

DILL (Ger.) DILL ANETO (It.)

A packet will sow 10 ft.; an ounce 50 ft. of row.
146 DILL is an annual herb used for seasoning pickles, sauces, soups, etc. It is so easily grown that every garden should have a short row of this valuable herb.
Pkt., 10c; oz., 25c.

EGGPLANT

EIERPFLANZE (Ger.) MELANZANI (It.)

A well known popular vegetable which produces large purple fruits. It is served mostly fried. Seed germinates slowly and should be started in hotbed.

One ounce produces 1000 plants; four ounces will produce enough to set one acre. Ready for table in 120 days from sowing.

Culture—Sow in February or March in warm hotbeds. When the plants have two rough leaves, transplant to 3 or 4 inches apart or into small pots; after all danger of frost is past, about the middle or end of May, transplant to the garden, setting plants about three feet apart each way. Shade the young plants from hot sun.

148 BLACK BEAUTY. Ten days to two weeks earlier than New York Improved Purple. Fruits slightly longer and darker than this variety, being rich dark purple, large and symmetrical. It is very desirable for market as it holds its color a long time. It is entirely free from spines; splendid for early crop or very late planting.
Pkt., 10c; oz., 45c; $\frac{1}{4}$ lb., \$1.35.

149 NEW YORK IMPROVED PURPLE (Spineless). This has long been a general favorite both for market gardeners and home use. It is the largest variety in cultivation and one of the best. The plant is robust, usually producing 4 to 6 large, oval fruits of splendid dark purple.
Pkt., 10c; oz., 45c; $\frac{1}{4}$ lb., \$1.35.

Plants—Ready in May. We do not send these plants by mail.

New York Improved Purple Eggplant.



Jersey Pickling Cucumber.

KALE or Borecole

BLATTERKOHL (Ger.) CAVOLO VERDI (It.)

A popular crop for fall, winter and spring use as "greens." In addition to its table use it is a splendid soil improver and very nutritious as a grazing crop for cattle, hogs or sheep.

Culture. In this section it is usually sown broadcast from the middle of August to the middle of October at the rate of 3 or 4 pounds to the acre. Scotch Kale is sown earlier and when very early is usually sown in drills. In the spring, seed can be sown in February, March and April. Spring sown Kale requires 5 to 6 pounds to the acre and Smooth Kale should have 6 to 8 pounds to the acre. The ground should be prepared cleanly and harrowed as finely as possible. Seed can be covered with a smoothing harrow or roller but not covered too deep.

164 DWARF GERMAN GREENS. An old standard winter variety in this section. Leaves numerous, large, frilled and waved; color is a bluish green. When properly cooked, make a very palatable dish of greens. In this locality, will stand the winter.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., 90c.

165 DWARF CURLED SIBERIAN. A vigorous growing sort of spreading habit, its green foliage having a distinctive bluish tinge or bloom. Very hardy and a favorite in many sections for greens and extensively grown for forage.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., 75c.

166 DWARF GREEN CURLED SCOTCH. A finely curled, spreading, low growing variety, which is very popular around many trucking centers, especially in the east. The leaves are attractive, bright green color and beautifully curled, which makes it excellent for garnishing. It must be sown earlier than other sorts; usually from July until end of August or can be sown in March. Can be sown either in drills or broadcast.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00.

167 TALL CURLED SCOTCH. Leaves green, beautifully curled and wrinkled—grows about 2 feet in height; hardy, being improved by frost.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00.

KOHL-RABI

KNOLLEKOHL (Ger.)

CAVOLO RAPA (It.)

A vegetable intermediate between a cabbage and a turnip which combines the flavor of both. It forms a turnip-shaped bulb above ground which is boiled and served like turnips. If used when young, is tender and a very desirable vegetable.

Culture. For early use sow in hotbeds and transplant. Out-of-doors sow in open ground the first part of April in rows 18 inches apart; thin out or transplant to 6 inches apart in the row. Cultivate same as cabbage. It can also be sown the latter part of June or in July for fall use. One ounce will sow 300 feet of drill.
168 EARLY PURPLE VIENNA. Very early with small tops, bulbs good size. A variety of good quality.
Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 75c.

169 EARLY WHITE VIENNA. An excellent sort for general use, has white tender flesh of pleasant flavor.
Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 75c.

ENDIVE

ENDIVIEN (Ger.) ENDIVIA (It.)

One of the best salads for fall and winter use, and sometimes used for greens, flavoring soups and stews. It may be grown at any season but is more generally planted for fall.

Culture. For early use, sow about April 15th; for later use, sow in June or July, in drills 18 inches apart, and when large enough thin out to about one foot apart. When nearly grown, tie the outer leaves together over the center in order to blanch up the heart. By covering fresh plants every few days a succession may be kept up. One ounce to 100 feet of row.

150 GREEN CURLED. One of the hardiest and best varieties for general use. It has deep green leaves, beautifully cut and curled and is easily blanched; is very crisp, tender and of fine flavor.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

151 BROAD LEAF BATAVIAN (Escarole). A variety having broad, more or less twisted, waved, bright green leaves with thick white midribs. It is much larger in growth than other sorts and has a flavor all its own. The inner leaves form a very solid, clustering head; are blanched a beautiful deep, creamy white; crisp; tender and of fine flavor. Very highly esteemed by the French and popular wherever used.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

152 MOSS CURLED. A compact growing variety forming large dense clusters, finely divided, medium green leaves. When properly blanched is rich creamy white and tender. An ornamental variety for salads.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

153 WHITE CURLED. Plants 12 to 18 inches in diameter; leaves finely curled, with broad ribs slightly rose tinged. Creamy white at the heart. Handsome in appearance and of fine flavor; excellent for salads.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

GARLIC

KNOBLAUCH (Ger.) AGLIO (It.)

Used for flavoring. The bulbs are divided into "cloves" or flakes and set out like onion sets about 4 inches apart in the row, and covered 2 inches deep. When the tops die down take up the bulbs and dry in a shady place. Bulbs only.
Pkt., 5c; oz., 20c; 1 lb., 50c.

LEEK

POREE (Ger.) PORRO (It.)

Leek is a kind of onion that does not form any bulb, but grows in a long stem, which is blanched by drawing earth around it. When blanched it makes an appetizing salad, or is eaten like green onions. Boiled they are more delicate in flavor than the mildest onions. Seed is sown in the spring and the leek is ready to use in the fall. If given a little protection with dirt it will last over winter and give a very welcome addition to the early spring menu.

170 LARGE FLAG. The most extensively used of the strong growing types. It is broad leaved, with rather short but very thick stems, and uniform, and of fine quality.
Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c.

KOPFSALAT (Ger.)

LETTUCE

LATTUGA (It.)

The smallest of home gardens can easily grow plenty of Lettuce. By making successive sowings and using the Lettuce as it is thinned, a supply can be had throughout the season from just a few rows in the garden.

Lettuce seed germinates quickly and may be planted as soon as the ground can be prepared in the early spring. Sow seed in rows 15 to 18 inches apart, covering not more than $\frac{1}{2}$ inch deep.

To grow good head Lettuce, the conditions necessary are rich soil, plenty of moisture, and steady growth from the time the seeds are planted until the heads are ready to use. A check in growth from lack of nourishment or moisture usually means no head. The most satisfactory results come from growing Lettuce in cool weather. The plants should be thinned to 10 inches apart in the row and thorough cultivation given to keep down the weeds and conserve moisture.

One ounce sows about 250 feet of row; 3 pounds for 1 acre.

Curled or Loose-Leaved Varieties

172 BLACK SEEDED SIMPSON. The best sort for nearby markets and for home gardens on account of its superior quality. It forms a large, loose head, very bright green, nearly white and is exceedingly tender. Is largely used for forcing under glass and a superior sort for earlier crop.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

173 GRAND RAPIDS. Special forcing strain. The most popular variety for greenhouse forcing, especially for shipping. It is of quick growth, hardy and not liable to rot; remains in good condition several days after being fit to cut. Plants are upright and uniform; leaves finely crumpled at the edges. It is the heaviest loose-headed sort, will stand shipping better and is a very attractive variety.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 50c.

174 EARLY CURLED SIMPSON (White Seeded). Makes a large, loose curled head similar to Black Seeded Simpson. Particularly adapted for sowing thickly and cutting when the plants are young. Leaves light green, slightly frilled, much blistered, crisp, sweet, and tender.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

175 EARLY CURLED SILESIAN. An old and very popular variety which is probably the earliest and quickest sort grown. Plants loose, not quite so large as Black Seeded Simpson. Popular for outside.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

176 EARLY PRIZE HEAD. A large clustering, non-heading sort, most excellent for home gardens as it is very early. Leaves broad, crumpled, and frilled; outside leaves tinged red, inner leaves entirely green; very crisp, sweet, and tender.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.



New York
or Wonderful
Lettuce.



Grand Rapids
Lettuce.

Cabbage or Heading Varieties

178 ICEBERG. A beautiful Lettuce, with large, curly leaves of bright, light green, with a very slight reddish tint at the edges. Handsome heads, unusually solid because of the natural tendency of the large, strong leaves to turn in which also causes thorough blanching. Crisp, tender and fine flavor.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

179 TOP NOTCH. A distinctly improved variety of Big Boston and one of the very best for forcing or out-of-door culture. Under favorable conditions the heads will measure 10 to 12 inches across; are bright, lively green color with the brownish marking of Big Boston. The heart and inner leaves are pure white. It is deliciously flavored, very tender, of splendid quality and highly recommended for extensive market growing or home use, as it will be found thoroughly reliable in heading and the most profitable of this type.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

180 BIG BOSTON. This has long been a favorite sort with market gardeners and truck growers and in some sections is planted almost exclusively. It forms a large, compact head, forces well in frames and is thoroughly satisfactory for outdoor crops in the spring or very late head crops in the fall. Leaves are broad, comparatively smooth, color bright, light green. The heads are slightly tinged with reddish brown.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

182 IMPROVED HANSON. A splendid summer heading sort and probably the most popular of its class in this section. The plants are compact, forming a large cabbage-like head which remains in good condition a long time. The outer leaves are yellowish green, somewhat crumpled with a large, distinctive mid-rib, the inner leaves white, sweet and tender. This variety is a little coarse in quality, but on account of its large size and general reliable summer heading qualities, is profitable and desirable for summer use.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

183 NEW YORK or WONDERFUL. This variety is raised in California and shipped to Eastern markets as "Iceberg." Crisp, tender and free from bitterness. It produces immense heads, often 15 to 16 inches across and weighing enormously. The interior is beautifully blanched, creamy white, crisp, tender and delicious. It is a very large, robust growing variety, rooting deeply, resisting hot, dry weather, very slow to run to seed and a sure header under most trying conditions.

Pkt., 5c; oz., 25c; $\frac{1}{4}$ lb., 70c.

MELONE (Ger.)

MUSKMELON or CANTALOUP

POPONE (It.)

One ounce plants 50 hills; 2 pounds to 1 acre. Plant in May for early crop; in June for late crop.

It's Not Hard to Raise Melons It is much easier to raise melons than is usually supposed and they are so delicious a fruit that every one who has any garden at all should raise some. All that is required is a good rich, well-manured soil, that is not too heavy, and a warm, sunny situation.

Culture. Seed is planted in hills 6 feet apart, putting 10 to 12 seeds to the hill and covering 1 inch deep. If land is not rich, use well-rotted manure or a little sheep manure mixed with the soil. When danger of insects is over, thin out to 4 plants to the hill.

Green Fleshed Varieties

187 ROCKY FORD or NETTED GEM. The flesh is green, thick, with small cavity, very sweet and has that spicy flavor that makes a Cantaloupe so delicious. The melons are oval-shaped, slightly ribbed, well covered with fine netting and are uniform in size and shape.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

188 OHIO SUGAR. The flesh is an attractive green of fine texture, sugary, juicy, tender, and free from stringiness. It is round, inclined to oval, distinctly ribbed and netted. Because of its firm flesh and solidity, it is a splendid shipper.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

189 EXTRA EARLY HACKENSACK. Two weeks earlier than the Large Hackensack and produces medium sized fruit, somewhat flattened, evenly deep ribs with coarse netting. The flesh is green, slightly tinged with yellow, juicy, and sweet.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

190 LARGE HACKENSACK (or Turk's Cap). An old and well-known sort which produces very large, green-fleshed fruits which are nearly round and flattened. Flesh green, thick, juicy, and sweet.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

191 HONEY DEW. Its name has been well chosen, as it is about as sweet as honey. The average size is about 6 inches in diameter, and it weighs 5 to 6 pounds. The skin is smooth with a little netting and of creamy yellow when ripe. The flesh is beautiful green next to the outside rind shading to light green at the center. It is very thick, fine grained, and can be eaten almost to the rind and the seed cavity is quite small.

Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

MUSKMELONS—Continued.

Orange Fleshed Varieties

193 BENDER'S SURPRISE. Exquisitely fine flavor, large size and earliness combine to make this new melon a great favorite. The melons are of oval shape; flesh deep orange, very thick, deliciously sweet and of high flavor. Grows fairly large, weighing up to 10 pounds each. The melons are very firm, keep for a week after being picked.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

194 EMERALD GEM. An early, yellow-fleshed melon of small to medium size which is one of the very best for home gardens. Vines vigorous and productive. Fruits globe-shaped, flattened, somewhat irregularly ribbed and very slightly netted. Outer skin dark green when young, becoming slightly tinged with yellow. Flesh deep salmon-yellow, thick, and very highly flavored.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

195 GOLDEN CHAMPLAIN or LAKE CHAMPLAIN. Earliest of the orange-fleshed melons; 75 to 80 days. Nearly round, slightly flattened at ends, 5 to 6 inches in diameter. Usually slightly ribbed and covered with an open, moderately coarse netting. The flesh is fairly thick, orange-salmon in color, juicy and very sweet. When fully ripe, the fruits show a golden color through the netting. A very good early market and home garden variety.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

196 HALE'S BEST. Since its introduction, this variety has displaced some of the older popular favorites by its outstanding merit. An early melon, ripening in 75 to 80 days. The nearly round fruits are normally 6 to 6½ inches long, densely covered with a medium heavy netting and almost devoid of ribbing. The flesh is very thick and fine grained, deep salmon-pink in color, richly flavored.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

197 HEARTS OF GOLD or IMPROVED HOODOO. A new orange-fleshed variety, ideal as a shipping melon and of the very finest quality. Fruits uniformly of medium size. Rind thin yet very firm. Flesh very thick, firm, of fine texture and delicious flavor.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

198 HONEY ROCK or SUGAR ROCK. The best recent introduction; originating in Indiana. Its extreme earliness is not the least of its valuable qualities. It is of medium size with a slate gray rind and coarse, rope-like netting. It has a thick, pink flesh and a small seed cavity. The flavor is excellent.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

199 OSAGE or MILLER'S CREAM. A medium salmon-fleshed melon of excellent quality. Fruits are oval, dark green, slightly ribbed,



Melons Are Not Hard to Raise.

tinged with grey. Flesh salmon color, thick, and highly flavored. A splendid sort for late or main crop, especially for the market.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

200 TIP TOP. A popular sort with market gardeners, producing very large sized melons, ribbed but almost smooth skin. Flesh salmon, very deep, a little coarse but exceedingly sweet and luscious. Especially desirable for very rich soil and one of the most profitable for market.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

201 BANANA. A long, smooth-skinned variety, growing somewhat in the shape of a long squash. Fruit about 12 inches long, salmon flesh, which is very sweet, luscious and tender. Much esteemed in some localities.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 45c.

WASSER-MELONE (Ger.)

WATERMELONS

COCOMERO D'ACQUA (It.)

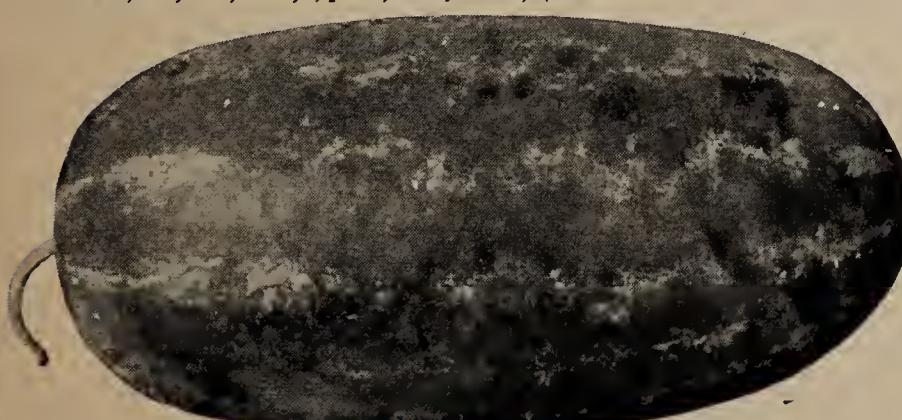
Watermelons do best on old, rich soil, which is not too freshly manured, hence when making the hills, well-rotted manure should be used, and it is better to prepare them some time ahead before planting the seed. If manure cannot be obtained, use good commercial fertilizer or sheep manure mixed with the soil.

One ounce plants 20 hills; 4 pounds per acre. Plant early in May or for later use, in June.

Culture. Treat as for muskmelons, but give more room, 10 to 12 feet apart each way.

204 COLE'S EARLY. A sure cropper for northern states. Its dark red flesh is delicate in texture; rind green, striped with lighter shades, thin and brittle; of medium size, and nearly round. Matures early, especially good for home use.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., 75c.

205 STONE MOUNTAIN. A melon of finest quality and claimed to be the sweetest of all of the large melons. It is almost round and has a dark green, medium thick rind. Flesh rich scarlet. It is not unusual to grow Stone Mountains weighing 70 to 80 pounds. For home use and nearby markets it is unexcelled.
Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00.



Anyone Who Has Light Sandy Soil Can Raise Good Watermelons.

206 EXCEL. Will produce more large, marketable melons under the same conditions than any of the other sorts of the long variety and its carrying and keeping qualities are unsurpassed. Fruits oblong in shape, dark green in color with tracings of light green. Flesh deep red, crisp and tender. Weight, 35 to 60 pounds.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., 75c.

207 TOM WATSON. A long, dark green melon, which has become exceedingly popular on account of its large size and general fine qualities. Vines are vigorous and productive. Flesh rich bright red, very juicy and sweet. Most suitable for nearby markets, family gardens, and a favorite with truckers, as it stands shipping well and retains its color and good quality a long time.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., 75c.

208 KLECKLEY'S SWEET. One of the best flavored melons in cultivation and one of the best for home use or nearby markets. It is long, very dark green with thin rind. Flesh deep red, of fine, delicious flavor.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., 75c.

209 FLORIDA FAVORITE. A well-known popular sort which has long been a favorite for home use and market. Ripens early, has dark green rind, striped with light green. Flesh light crimson, exceedingly sugary, fine and tender. Very delicious and highly recommended either for home market or family use.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., 75c.

210 FORDHOOK EARLY. The fruit is of good size, rather short and blocky in form, with large diameter. Skin dark green, occasionally with faint stripes of lighter green. Rind quite thin, but skin tough, making an excellent shipping variety. Flesh bright red, crisp, sweet, and splendid quality.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., 75c.

211 KOLB'S GEM. One of the older sorts producing oval melons and all large size. The rind is exceedingly hard and firm, being irregularly marked with mottled stripes of dark and light green. Flesh is bright red, solid, a little coarse, but sweet. One of the best round sorts for shipping as it will handle better than almost any other sort.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., 75c.

212 SWEETHEART. A very popular shipping sort particularly in the south. Fruits are very large, oval, very heavy with thin rind which is of light green color, slightly veined with darker shade. Flesh bright red, firm, very sweet, and the fruits remain in condition a long time after ripening. A splendid sort for market or main crop, being of fine appearance and sells readily.
Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; 1 lb., 75c.



Grow Your Own.

218 DARK ICING. A round or oval shape which has been a favorite for home use and nearby markets. Melons are medium sized, oval, dark green in color with bright red flesh which is extremely tender and sugary. A splendid early sort and highly desirable for home or early market.

Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1 lb., 75c.

219 IRISH GRAY. The size is uniform and large. Color of rind yellowish gray and it is almost as tough as that of Citron. Ripens earlier than Watson and will keep in good condition for a long time after picking. Very prolific and a good shipper. A fine market sort.

Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1 lb., 75c.

WATERMELONS—Continued.

213 PEERLESS or ICE CREAM. A splendid early sort for home or market gardens. Vines moderately vigorous, hardy, and very productive. Fruits are oblong, medium size, bright green, finely veined with darker shade. Flesh bright scarlet, crisp and very sweet.

Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1 lb., 75c.

214 GRAY MONARCH or LONG LIGHT ICING. Fruits uniformly long and large, oblong in shape. Color light green slightly veined with darker shade; flesh deep rich red, of splendid quality.

Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1 lb., 75c.

215 GEORGIA RATTLESNAKE. Also called Gypsy. One of the most popular of the older sorts especially in the south. Fruits are large, very long, of light green color distinctly striped and blotched with darker shade. In the south it is very highly esteemed and especially desirable for growing and shipping. The rind is remarkably thin though very tough; hence, it stands shipping well. Flesh most tender, sweet and luscious. Fruits are uniformly good quality.

Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1 lb., 75c.

216 HALBERT'S HONEY. A long, dark green Melon of moderate size but such splendid quality that it is especially desirable for market or home use. The rind is very thin. Flesh bright crimson and so crisp and tender that ripe Melons will split ahead of the knife in cutting. We especially recommend this for general planting as it is very productive, of excellent quality and a splendid seller.

Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1 lb., 75c.



Mushrooms.

MUSHROOM SPAWN

Mushrooms can be grown in cellars, sheds, under benches in greenhouses, or in hot-beds. They are also planted outside in pasture or sod. It is a very profitable crop both for forcing or a field crop. Our cultural instructions are somewhat limited but we can furnish a booklet of more extended information on "Success with Mushrooms." Price, 25c.

One brick will spawn about 10 feet square.

Culture. In preparing a Mushroom bed, take three parts of fresh stable manure, free from straw, and one part of good pasture soil. Mix thoroughly together and let it stand until the heat has sunk to about 90 degrees. Make the bed from this mixture about 4 feet wide, 8 inches deep and any desired length. As soon as the temperature of the bed is about 70 or 80 degrees, the Spawn may be inserted in pieces about the size of a walnut, and 6 inches apart each way. When the Spawn is diffused through the whole bed, which will be in about 10 days from planting, cover with 2 inches of fine loam and press down firmly. Over this place a layer of straw about 4 inches thick. Do not water unless the surface gets extremely dry, and then only with water at a temperature of 80 degrees. When gathering the crop, twist them off at

the roots and do not use a knife. Cover the hole with soil to keep insects away from the root.

ENGLISH MUSHROOM SPAWN. Well known and popular. Put up in bricks weighing about 1 1/4 pounds.

Per brick, 35c; 3 bricks, \$1.00. Postage extra.

MUSTARD

Mustard greens are as healthful and nourishing as spinach. The leaves of Mustard are more tender, and the stems are not so long and coarse. The plants are in condition for use as soon as the leaves are the size of one's hand.

Culture. Sow broadcast or in drills 12 inches apart in March or April or in the fall in September or October. Cut when 3 inches high. One ounce sows about 80 feet of drill. An acre requires 4 to 6 pounds.

220 FORDHOOK FANCY. This beautifully curled Mustard is very handsome in appearance and of very mild, pleasant flavor. The leaves are curled and fringed, and the plant remains longer without running to seed than other kinds.

Pkt., 5c; oz., 10c; 1/4 lb., 25c.

221 MUSTARD SPINACH or TENDERGREEN. A desirable, quick-growing, tender variety with long, broad, fairly smooth leaves of dark green; white mid-ribs; slow to seed.

Pkt., 5c; oz., 10c; 1/4 lb., 25c.

222 SOUTHERN GIANT CURLED. A large growing sort with succulent, pungent leaves of sweet flavor. The best variety for use as greens.

Pkt., 5c; oz., 10c; 1/4 lb., 25c.

223 WHITE. Used for greens and the seed largely used for pickles and flavoring.

Pkt., 5c; oz., 10c; 1/4 lb., 25c.



Southern Giant Curled Mustard.

It is only in the home garden, where there is no loss of time from garden to table. You too, can have garden fresh vegetables, with unexcelled table quality.

GROW WHAT YOU EAT.

OCHER (Ger.)

OKRA or GUMBO

OCRA (It.)

Okra pods are used in soups, stews, catsup and other relishes. They are at their best when 1 to 3 inches long. Rapidly becoming a most popular vegetable.

Culture. Sow in drills $2\frac{1}{2}$ feet apart after the weather has become settled and warm. Thin out to 18 inches apart in rows. To keep for winter, slice the pods when young in narrow rings and string or hang in the shade to dry.

One ounce sows about 50 feet. Ten pounds per acre. Plant in April or May. Matures in 60 to 70 days from planting.

224 WHITE VELVET. An early maturing and very productive variety growing about $3\frac{1}{2}$ feet high. Pods white, long, smooth, and very tender. This is not so deeply ribbed as the green sorts and is very popular in some sections. **Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.**

225 DWARF PROLIFIC. One of the most popular sorts in the South, growing 3 feet high, producing large pods, deeply ribbed, tender and of fine flavor. **Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.**

226 PERKINS' MAMMOTH. Plant dwarf; is very attractive. Produces long, slender, deep green pods which remain tender a long time. **Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c.**



Perkins' Mammoth Okra.

ONION SETS

There are three distinct classes of these. **Potato or Hill** Onions can be planted in the fall from August to November and produce green spring onions, large onions, and sets. **Perennial or Egyptian Top** Onion sets are planted in the fall and produce green spring onions early in the spring. **Bottom Sets** or regular Onion sets of commerce are small onions which were previously grown from seed. These set out early in the spring or in the South in the fall, produce one large onion from each set, towards the end of June or first of July. Pickling onions (which are a larger size bottom set) are used in some localities for fall planting to produce early green spring onions. All onion sets are hardy and can be set in the open ground as early as the weather will permit. They are usually planted in rows 15 inches apart—4 inches apart for small sets and 6 to 8 inches apart for potato sets. Potato onion sets can also be planted in the spring. It takes about 16 bushels of bottom onion sets per acre, and 20 to 25 bushels of potato onion sets, according to the size and distance apart.

Prices of onion sets are subject to market changes. Prices on application.



Ohio Yellow Globe Onion.

PARSLEY

PETERSILIE (Ger.)

PREZZEMEOLO (It.)—

Easily grown and useful for so many purposes, such as garnishing, seasoning salads and for ornamental purposes. Grown in the garden as edging it is both ornamental and profitable.

Culture. Seed is sown in rows $\frac{1}{2}$ inch deep and one foot apart. Cover firmly but not deep. As it is slow to germinate, usually taking 3 to 4 weeks, soaking in water is desirable. One ounce sows 150 feet of drill. For winter growing it can be sown or transplanted to cold frames or to hotbeds and is usually profitable.

239 CHAMPION MOSS CURLED. A beautifully curled and crimped variety which is much preferred. It is vigorous, compact in growth and excellent for garnishing—a handsome decorative plant. One of the most popular for market and home gardens. **Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c.**

240 HAMBURG or ROOTED. This produces an edible root resembling a small parsnip both in color and shape. Flesh white, flavor similar to Celeriac. Foliage is about the same as plain Parsley. Roots are extensively used for flavoring soups and stews and can be dug late in the fall and stored in sand for winter use. **Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c.**

241 PLAIN. A hardy variety having very dark green leaves which are flat, deeply cut but not curled. It is a little stronger in taste and much esteemed for flavoring soups and stews, as well as for drying. **Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c.**

ZWEIBEL (Ger.)

ONIONS

CIPOLLO (It.)

One of the most nutritious and healthful of vegetables, having excellent medicinal qualities and most useful for flavoring salads, soups, meats, etc. It can be produced easily from either sets or seed and is one of the most satisfactory vegetables in the garden.

Culture. Growing Large Onions from Seed. Seed is sown in rows 15 inches apart as early in the spring as ground can be worked and covered about one-half inch deep. When 2 or 3 inches tall, the young plants can be thinned to prevent crowding. They can be thinned again when 6 or 8 inches tall, and the plants removed can be used as green onions. After that, they can be pulled as needed, and those that are left to become fully ripe can be stored for winter. One ounce sows 125 feet of row, 6 pounds of seed per acre.

230 LARGE RED WETHERSFIELD. A splendid red variety, very popular in the East. Bulbs somewhat flattened, thick and very large. Skin deep purplish red, flesh white tinged with purple, moderately fine grained, strong but pleasant flavor. It is medium early and well suited to rich soil. Is a good keeper and productive. **Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 85c.**

231 YELLOW GLOBE DANVERS. One of the most extensively grown yellow onions. Bulbs are of large size, uniformly globe shape with small necks. Ripen evenly. Flesh creamy white, crisp and excellent flavor. Onions have a yellow coppery color, showy and handsome. **Pkt., 5c; oz., 40c; $\frac{1}{4}$ lb., \$1.25.**

232 OHIO YELLOW GLOBE. A very much esteemed and popular sort grown extensively in this state. Particularly suited to rich soils. Onions somewhat more flattened at the base than Yellow Globe Danvers and more blunt at the top. Color rich yellow tinged with orange. Flesh, creamy white, mild, and of fine flavor. One of the best for main crop planting and shipping as it is an excellent keeping sort. **Pkt., 5c; oz., 40c; $\frac{1}{4}$ lb., \$1.25.**

233 PRIZETAKER. The true Prizetaker is globe shape, has pale yellow skin and white flesh, which is very mild and of delicate flavor. It is strictly "fancy", and will be found on fruit stands during the fall, where it is sold as Spanish Onion. No sets are required, as the large onions are grown the first year from seed sown during early spring. **Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c.**

234 RIVERSIDE SWEET SPANISH. A very large globe-shaped, light yellow onion with small top and an exceptionally fine shipper. It is a Spanish variety resembling Prizetaker, which has quickly become very popular. **Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c.**

235 SILVERSKIN or WHITE PORTUGAL. A well-known and favorite variety making medium size onions of mild flavor with beautiful, clear white skin. Largely used for sets and pickling onions. Mature 10 days earlier than White Globe. Bulbs are nearly round when of bunching size but somewhat flattened when mature. One of the best flattened sorts for general use. **Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., 90c.**

236 WHITE GLOBE. A fine early or main crop sort for home gardens. Flesh is firm, fine grained, white, mild and more desirable for cooking than the yellow or red sorts. Bulbs are globe shape, full at the shoulder, round at the base, keep well; a good market variety. **Pkt., 5c; oz., 40c; $\frac{1}{4}$ lb., \$1.25.**

PASTINAKE (Ger.)

PARSNIPS

PASTINACA (It.)

This fine vegetable should be in every home garden. Parsnips grow best in a loose, rich sandy soil, but will make good roots in any soil that is reasonably rich and deep. Parsnips are improved by freezing, and a portion of the crop can be left in the ground and will supply a welcome addition to the winter vegetables.

Culture. Sow in April in drills 18 inches apart, covering lightly. When the plants are about 2 inches high, thin out from 4 to 6 inches apart. One ounce will sow 150 ft. drills, 5 to 6 pounds to the acre.

242 LARGE SUGAR or HOLLOW CROWN (Guernsey). One of the best and most popular varieties for the table. Roots long, uniform in shape, have a smooth, white skin, tender and of good quality. **Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 35c.**

PEANUTS

Peanuts can be successfully grown in warm, sandy soil in a sheltered place with a southern exposure.

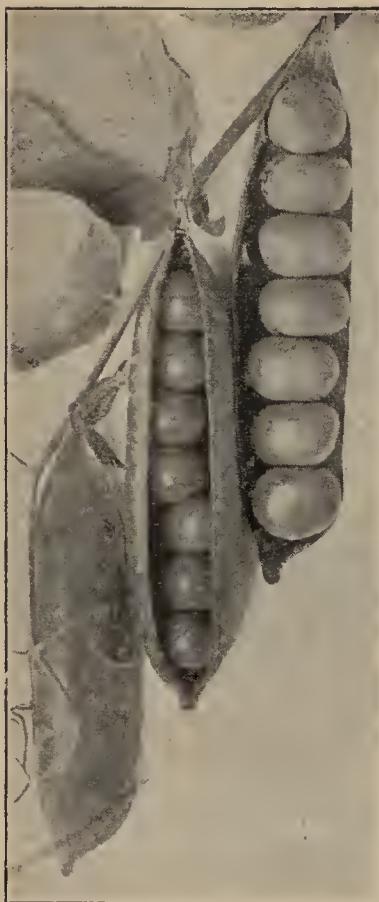
Plant in May or early June, in rows $2\frac{1}{2}$ feet apart. Drop the shelled nuts 8 to 10 inches apart, cover 1 inch deep. When the plants are nearly full grown throw earth up to them. This will cause the nuts to form.

IMPROVED VIRGINIA.

Large and very prolific. **Per lb., 25c; 5 lbs. or more, 20c per lb.**



Hollow Crown Parsnip.



Peas, Maud S.

ERBSEN (Ger.) GARDEN PEAS PISELLI (It.)
Plant Enough to Can

One of the most popular crops in the home garden. One pound sows 75 feet in a row; 120 to 180 pounds per acre. The earliest sorts can be planted just as soon as the ground is in condition to work. They are not injured by light frosts. Wrinkled varieties a little later as they are tender. For fall crop sow in August.

Culture. Peas succeed best in light, rich loamy soil. The early dwarf varieties can be planted in rows 2 feet apart. The tall varieties in rows 3 feet apart. The seeds should be planted at a depth of 1½ to 2 inches. All varieties growing more than 1½ feet high do better if staked up or otherwise supported when 4 to 6 inches tall. This support is usually given by sharpened branches of trees or sticks. Tall varieties yield more abundantly than dwarf. Cultivate and keep clean, working the earth toward the vines rather than away from them.

First Early Varieties

244 MAUD S. The earliest and most prolific Pea known. The pod is of a dark green color, of a full, round shape and of strong texture which especially fits it for shipping long distances. For a late fall crop it has few equals and is the market gardener's favorite for all seasons. The far northern point at which our peas are grown renders them almost proof against cold and the best for early spring or late fall crop. Thousands of market gardeners have pronounced this Pea unequalled in earliness, yield and regularity of growth. Make first planting as early in the spring as the ground will permit and cover well.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

245 EXTRA EARLY. One of the best strains of extra early peas; producing abundantly. Vines grow 2 to 2½ ft. high; pods 3 to 3½ inches long, well filled with fine delicious quality peas. Not only is this probably the earliest of all garden sorts but its yield is so abundant that it is the most profitable variety of all for market gardeners, in addition to being the best early sort for home gardens. Seed is white, smooth, medium size. Vines thrifty, vigorous, robust and extremely productive.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

246 ALASKA. A favorite sort with Southern truckers, producing long, straight pods which will stand shipping, and remain green longer than white seeded sorts. The seed is blue, medium size. Vines about 2½ ft. high, fairly vigorous and usually produce good yields. Pods long, straight and of attractive appearance. This has long been a popular sort, is of fair quality and well known.

Pkt., 10c; ½ lb., 15c; 1 lb., 25c; 2 lbs., 45c; 5 lbs., \$1.00.

247 EARLY BIRD. The earliest large podded, dwarf sort. Vines about 18 inches high, foliage light green, producing an abundance of single and double, curved, pointed medium-dark green, attractive pods of about 4 inches in length; contain 9 to 10 peas. Peas are tender and of excellent flavor.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

248 GRADUS (or Prosperity). One of the very best early wrinkled large Podded Peas. The pods are fully as long as Telephone. Vine similar in appearance and does not grow so tall, being of medium height, about 3 to 3½ feet. The pods are 4 to 4½ inches long, pointed, handsome and one of the most attractive of the early wrinkled sorts. Peas very large, splendid quality and a beautiful light green color. This has become one of the most popular varieties in cultivation.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

249 THOMAS LAXTON. A very popular gardener's variety. Height, 3 ft.; vine and foliage moderately stout, medium green; pods 3½ inches long, straight and square ended, containing 7 medium dark green peas of excellent quality. Extremely productive.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

250 LAXTONIAN. One of the largest podded of the dwarf wrinkled Peas. Pods are about 4 inches in length, of a beautiful dark green color, similar to Gradus in shape, of splendid quality and mature a little earlier. Vines average 15 to 18 inches in height, vigorous, productive and have dark green foliage.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

251 LITTLE MARVEL. An extra early dwarf wrinkled sort particularly suited to home gardens. Vines average 15 to 18 inches high; vigorous, dark green foliage. Peas are borne together in pairs. Though comparatively a new sort it has become exceedingly popular on account of its large productive yield.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

252 AMERICAN WONDER. A favorite dwarf, early, wrinkled Pea which is highly esteemed and splendid for family use. Vines about 9 inches to 1 ft. high, covered with well-filled pods, medium size, about 2¾ inches long, containing 5 to 8 large, exceedingly sweet, tender peas.

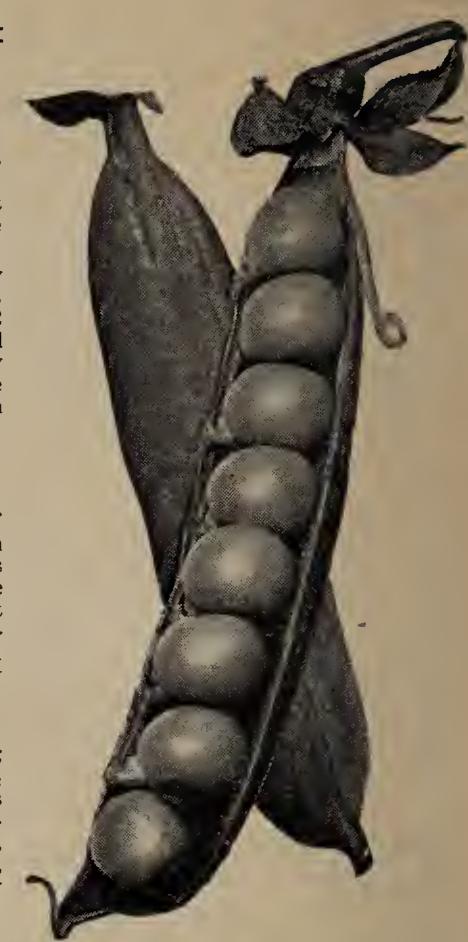
Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

253 LAXTON'S PROGRESS. Produces the largest pods of any of the early dwarf varieties. Vines average about 18 inches in height. The large dark green pods are borne in abundance and are well filled with extra large tender peas of superior quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

INOCULATION FOR PEAS

Excellent results will be obtained by treating the seeds of Peas with **NITRAGIN INOCULATOR** before planting. It can be easily done. We have it put up in convenient size for small gardens. (See page 53).



254 NOTT'S EXCELSIOR. A few days later than the American Wonder. Pods about one-quarter larger. It is remarkably hardy and can be planted almost as early as smooth sorts. Height, 1 to 1½ ft. One of the best for home gardens and profitable for market gardeners.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

255 PREMIUM GEM. This has long been a favorite among early dwarf Peas. It matures a little later than American Wonder, is somewhat taller in growth and a little more prolific. Vines vigorous and productive, growing 15 to 18 inches high; pods 2¾ inches long, crowded with peas of fine quality.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

Midseason Varieties

257 DAISY or DWARF TELEPHONE. Similar in general characteristics to the well-known Telephone. Pods 4½ to 5 in. long, dark green; peas large, of superior quality, tender and sweet. Vines 3 ft. high.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

258 ALDERMAN. This is really an improved Telephone, and is by far the best variety of this type. Yields more than any other variety. The pods resemble Telephone, but are larger and better filled, while the vines are of more robust growth and more prolific. Height from 4 to 5 feet. For best results the vines should be given some support. The pods are immense, often 5 inches long and contain 8 to 10 large peas.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

259 IMPROVED TELEPHONE. One of the leading Peas with market gardeners on account of its vigorous, tall growth and productivity. Vines about 4 ft. high, foliage light green, producing an abundance of pointed pods, very large and light green. Peas large, tender, very sweet, excellent flavor. A splendid sort for home gardens and profitable for market.

Pkt., 10c; ½ lb., 20c; 1 lb., 35c; 2 lbs., 65c; 5 lbs., \$1.25.

Edible Pod Varieties

These varieties have all the sweet-ness and flavor of fresh green Peas. When the pods are partly filled, they are prepared like snap beans; when the seeds have developed, they are eaten as shelled peas.

260 MAMMOTH MELTING SUGAR. Pods very large, 4½ inches long, broad, curved and twisted. When young, they are very tender, stringless and fine flavored. Vines are tall, 4½ to 5 ft. high, with light foliage; are very strong growing and prolific. We strongly recommend more extensive planting of these fine quality peas.

Pkt., 10c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.

261 DWARF GREY SUGAR. Pods 3 inches long, light green in color, heavily curved. Vines are about 28 inches tall. A prolific variety and best of the dwarf edible podded peas.

Pkt., 10c; ½ lb., 25c; 1 lb., 40c; 2 lbs., 75c; 5 lbs., \$1.50.



PFEFFER (Ger.)

PEPPERS

PEPERONI (It.)

Peppers are not difficult to grow. For earliest yields sow in hotbeds and transplant to the open ground in May. Cover seed very lightly and keep the soil moist. Plants should be set about 15 inches apart in rows $2\frac{1}{2}$ feet apart. If the peppers are kept picked before they turn red, the plants will produce great numbers during the season.

One ounce produces about 1,000 plants.

265 SUNNYBROOK. The sweetest and most prolific of all Peppers. The skin is deep red, smooth, glossy, and the red flesh is extremely thick, mild, juicy, and delicious, being superior for salads and for flavoring. The plants grow about 24 inches tall. An excellent home garden variety.
Pkt., 5c; oz., 40c; 2 ozs., 70c.



Sunnybrook Pepper.

266 CALIFORNIA WONDER. Resembles Chinese Giant in the large size and blocky form of its fruit, but having an extremely thick flesh not possessed by that variety. Fruit crimson, measuring $4\frac{1}{2}$ inches in length by 4 inches in diameter, mild and sweet.
Pkt., 10c; oz., 50c; 2 ozs., 85c.

267 HARRIS' EARLY GIANT. A very large, sweet Pepper. Plants produce enormous yields and the peppers mature earlier than any other very large kind. Fruits are 5 inches high and $3\frac{1}{2}$ inches through; deep green turning to brilliant red. Flesh thick and of a very sweet, pleasant flavor. This will be found a very valuable pepper for the home garden and a profitable one for market.
Pkt., 10c; oz., 50c; 2 ozs., 85c.

268 CHINESE GIANT. An enormous variety sometimes attaining 6 inches in diameter. It is very even in shape, flesh thick and sweet. Very handsome and of superior quality for stuffing. Plants are vigorous and fairly prolific. Very highly recommended for home use and one of the most profitable to grow for market purposes.
Pkt., 5c; oz., 60c; 2 ozs., \$1.00.

269 LARGE BELL or BULL NOSE. A large, early sort of mild flavor. Plant vigorous, 2 feet high, very productive, and ripens its crop early and uniformly. A splendid sort for salads, mangoes and for stuffing purposes. Color deep green which becomes bright crimson when ripe.
Pkt., 5c; oz., 40c; 2 ozs., 65c.

270 RUBY KING. A very large and attractive sort, deep green color when young, bright red when ripe. Flesh thick and mild flavor. One of the best table sorts.
Pkt., 5c; oz., 40c; 2 ozs., 65c.

271 RUBY GIANT. A variety of Mango Pepper, which is of a desirable size and shape for stuffing. A cross of Ruby King and Chinese Giant, grows to large size and is very mild.
Pkt., 5c; oz., 40c; 2 ozs., 65c.

272 LONG RED CAYENNE. A well-known medium early sort, having slender, twisted and pointed fruits about 4 inches long. Extremely strong and pungent, hence valuable for seasoning. Generally known as Lady Finger Pepper.
Pkt., 5c; oz., 40c; 2 ozs., 65c.

273 SWEET MOUNTAIN (or Spanish). Late maturing and an attractive sort. Fruits very large and long, frequently 7 inches in length and 2 inches in diameter; flesh mild, very thick and of excellent quality.
Pkt., 5c; oz., 40c; 2 ozs., 65c.

274 GOLDEN DAWN. A handsome, sweet, mild, yellow variety; fruit pendent, $1\frac{1}{2}$ inches long and about the same in diameter.
Pkt., 10c; oz., 50c; 2 ozs., 85c.

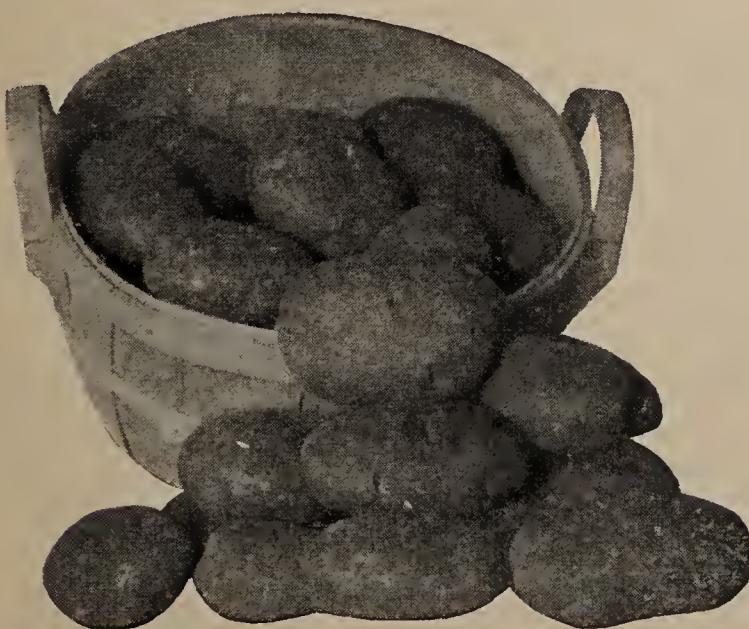
275 RED CHILI. Pods about 2 inches in length, $1/3$ to $1/2$ inch in diameter, tapering to a sharp point. Exceedingly pungent, hence valuable for flavoring and for Tabasco Sauce. The small bright red pods are borne in great profusion, making it an ornamental plant for the garden.
Pkt., 5c; oz., 50c; 2 ozs., 85c.

276 PIMENTO. The fruit is of good size, medium length and attractive color. The flesh is thick and solid, mild and of fine flavor. Desirable for salads and stuffed Peppers. The plants are vigorous and upright, about 2 to $2\frac{1}{2}$ feet high, with short, broad, dark green leaves. The fruit is deep green when young, becoming deep red as it matures.
Pkt., 5c; oz., 40c; 2 ozs., 65c.

Select Seed Potatoes

CHOICE NORTHERN GROWN STOCKS

Prices on Potatoes are constantly changing, subject to market fluctuations. Please write for current market prices when ready to purchase.



Culture. Potatoes are planted in rows 36 to 40 inches apart, dropping the potatoes 12 to 16 inches apart in the rows. It takes about 1 pound of fertilizer to 30 or 40 feet of drill, 400 to 600 pounds per acre. It takes 9 to 12 bushels to plant an acre according to size of potatoes and distance of rows apart. Plant for early crop as soon as the ground can be worked into condition. For late crop, in July or 1st of August is best.

Many potato diseases, particularly the more important ones, such as scab, black leg, black rot, stem rot, etc., were formerly treated by the old-fashioned methods which required soaking of the seed for long periods and creating a disagreeable task.

The introduction of **Improved Semesan Bel** has vastly improved these conditions by giving the grower a modern, instantaneous and effective method of disinfection at a reasonable cost and far superior in all respects to even the best of those previously employed. See page 61.

EARLY OHIO. The most popular early variety. The tubers are oval, have few eyes, rather shallow. Smooth skin, white, slightly flushed with pink. It is an extra fine quality cooking potato, makes good sized yields and is a favorite in this section and many others, especially where planted in light and loamy soil.

IRISH COBBLER. This has become an exceedingly popular and profitable variety for growing for market. Tubers are oval with smooth white skin, have few eyes rather deep. Grows to large size and produces enormous yields. Vines are thrifty and a reliable heavy yield can nearly always be expected. An excellent sort for market purposes and produces good crops both early and late.

Sweet Potatoes

We carry in stock the best sort of seed grown by reliable planters. Varieties, **Yellow Jersey** and **Nancy Hall**. Prices variable. Write for quotations. Cannot be shipped until about April 1.

Green Striped
Cushaw Pumpkin.

KUERBIS (Ger.)

PUMPKIN

ZUCCA (It.)

A few hills of pumpkins should be in every garden. The quality of home-grown pumpkin is far superior to the canned product. In addition, they make excellent food for stock and can be grown among the sweet corn at practically no extra expense.

Culture. Generally planted in corn after the last working and gathered after corn has been shocked. For field crop, plant in May or June in hills 8 feet apart, about 8 to 10 seeds to the hill and cultivate until the vines get strong; then thin out leaving 2 or 3 of the strongest plants in each hill.

One ounce plants 20 hills. Two to three pounds to the acre.

280 KING OF MAMMOTHS or POTIRON. An enormous flattened variety sometimes attaining 60 to 90 pounds in weight. It is especially desirable for exhibition purposes, Halloween parties and will find ready sale in most large cities at good prices.

Pkt., 5c; oz., 15c; 1/4 lb., 50c; 1 lb., \$1.50.

281 JAPANESE PIE. Fruit medium size. Skin light yellow, covered with fine grained netting. Flesh salmon, very thick, sweet, fine flavor and one of the best sorts for cooking.

Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25.

282 TENNESSEE SWEET POTATO. Medium size of creamy yellow color with light green stripes. Flesh thick, fine grained, dry, brittle and of excellent flavor. Unsurpassed for pies and custards.

Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25.

283 GREEN STRIPED CUSHAW. Fruit fairly large with crooked neck. Skin creamy white with green stripes. Flesh yellow, very thick, rather coarse but sweet. A productive and popular sort in most sections.

Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25.

285 LARGE CHEESE. A popular sort in this section for table use and stock. Fruits somewhat flattened; skin mottled light green and yellow. Flesh yellow and of tender quality.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; 1 lb., 60c.

286 SMALL SUGAR or NEW ENGLAND PIE. One of the best for the home garden. An excellent variety for pies. Nearly round, 10 to 12 inches in diameter; rich orange color. Flesh thick, fine grained and very sweet.

Pkt., 5c; oz., 15c; 1/4 lb., 30c; 1 lb., \$1.00.

287 CONNECTICUT FIELD. Used for planting in corn, for stock feeding and also for making pies. Fruits often 15 inches in diameter; smooth reddish orange ribbed skin with orange-yellow flesh.

Pkt., 5c; oz., 15c; 1/4 lb., 30c; 1 lb., 85c.

288 KENTUCKY FIELD. Grown generally throughout the central section for stock feeding. Fruits very much flattened, creamy yellow color; flesh orange. Very productive.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; 1 lb., 50c.

RADIES (Ger.)

RADISH

RAVANELLI (It.)

Finest Seed Stocks

One ounce sows 75 feet of drill. If broadcast requires 10 to 12 pounds per acre. For forcing in frames sow in January or February. Out-of-doors, sow from March to June for early summer crop. For late, sow from July to September. Early sorts mature and are ready for the table in 21 to 30 days from sowing.

Culture. Quick growth is essential for tender crisp radishes. Hence, rich soil and plenty of moisture are essential. They can be sown at intervals of 10 days to 2 weeks for early use or grown as a catch crop between rows of beets, lettuce, onions, etc.

Round Varieties

290 EARLY WHITE TIPPED SCARLET. One of the handsomest of the turnip varieties and a general favorite in nearly all large markets. It is excellent as a forcing sort or for earliest planting outdoors. Roots nearly round, slightly flattened on under side. Color very deep scarlet with distinctive white tip. Flesh white, of best quality. We strongly advise more extensive planting of this sort in this locality.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.



Early White Tipped Scarlet Radish.



Crimson Giant Radish.

291 EARLY WHITE TURNIP. Similar to Early Scarlet Turnip but little more flattened and slightly earlier maturing. It has very small tops, is of thick growth, suitable for forcing or early planting. Color clear white; flesh crisp and tender.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.

294 FRENCH BREAKFAST. A small olive-shaped variety about 1 1/2 inches long, which is very quick growing. Color beautiful deep scarlet shading to white at the tip. Top small. Quick maturing and splendid for very earliest crop.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.

295 CRIMSON GIANT. This variety is suitable both for forcing or early planting out-of-doors. A remarkable feature of this radish is that it will grow double the size of other round red forcing radishes and still remain solid. The ordinary forcing radish, after growing to the size of 2 inches in circumference becomes pithy, while the Crimson Giant will grow to 6 inches in circumference and still remain solid and juicy.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.

296 EARLY SCARLET TURNIP. A well-known sort producing round or oval roots of bright scarlet color. Flesh white, crisp, tender. Tops medium, quick growth; desirable for early planting.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.

297 EARLY SCARLET GLOBE. One of the very best and most showy radishes for earliest forcing or growing outside. Roots are slightly olive shape, rich bright scarlet color; flesh white and tender. It is fit to pull very early and is especially desirable for market gardeners on account of the showy qualities.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.

Long Varieties

298 CINCINNATI MARKET. A popular sort in this section and has long been a favorite with market gardeners. It is brilliant crimson with white slightly tinged flesh, exceedingly sweet and tender. Grows 6 to 7 inches in length, straight and smooth and does not become hollow and pithy until very old. A fine sort for either market or home use.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.

299 LONG SCARLET SHORT TOP. An old standard sort, excellent for home garden or market. Tops short and small. Roots smooth, tender, uniform shape; attractive bright red color.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.

300 LONG WHITE ICICLE. The earliest of the long white varieties which is popular for forcing and earliest outdoor or early summer crop. It is productive and of excellent quality, crisp and tender. Roots are usually 5 to 6 inches long and about 1/2 inch in diameter with small tops.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.

301 WHITE STRASBURG. One of the most popular and desirable of all long, white radishes. Even when small it is fine quality; remains crisp and tender much longer than other varieties. Roots 1 1/2 to 3 inches thick, 5 to 6 inches long, tapering. Tops medium; roots smooth, crystal white; handsome, showy, crisp and tender; desirable for market or family use.

Pkt., 5c; oz., 10c; 1/4 lb., 30c; 1 lb., 80c.

Fall Radishes

302 LONG BLACK SPANISH. A favorite late sort, producing long, thick, almost black roots, with white flesh of fine texture. Decidedly pungent but well flavored. Roots are usually 7 to 9 inches long, 2 to 3 inches in diameter and it is one of the best of the long sorts and especially adapted for winter use.

Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1 lb., \$1.00.

303 ROSE CHINA WINTER. A popular sort producing cylindrical roots, stub-rooted, blunt at both ends. Is bright, deep rose color shading to white. Skin smooth, flesh white, crisp, tender and pungent. Roots usually 4 to 5 inches long, 1 1/2 to 2 inches in diameter. Splendid for fall and winter. Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1 lb., \$1.00.

304 WHITE CHINESE or CELESTIAL. A large stump-rooted radish with white skin and flesh. Can be sown from July 1 to August 15, and will keep in prime condition a long time; mild in flavor, brittle and never woody. Fine for market gardeners.

Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1 lb., \$1.00.

305 CALIFORNIA MAMMOTH WHITE WINTER. A giant fall and winter variety. Roots from 9 to 12 inches long and 2 to 3 inches through, tapering regularly to the tips, smooth and cylindrical in form; skin and flesh white, tender and crisp.

Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1 lb., \$1.00.

306 ROUND BLACK SPANISH. Roots globe-shaped; 3 1/2 to 4 inches in diameter; skin somewhat roughened, black; flesh white, firm, crisp, and pungent.

Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1 lb., \$1.00.

SALBEI (Ger.)

SAGE

SALVIA (It.)

307 BROAD LEAF. An ornamental gray-leaved plant with blue flowers. Pick the leaves when half grown, dry, and powder them. An old favorite for flavoring meat and poultry dressings. Sow in the open ground. Thin plants to 6 inches apart.

Pkt., 10c; oz., 35c.

SALSIFY

HAFERWURZEL (Ger.)

SASSEFRICA (It.)

Often called "Oyster Plant" and is easily grown. A desirable winter vegetable which should be more extensively used throughout the Central States. Roots are palatable and can be served boiled or as fritters.

Culture—Sow in April in rows 18 inches apart, thinning out to 4 to 6 inches. Cultivate deeply and often. It is hardy and will remain out all winter, but if desired can be dug before winter and stored in earth or sand to keep it from wilting.

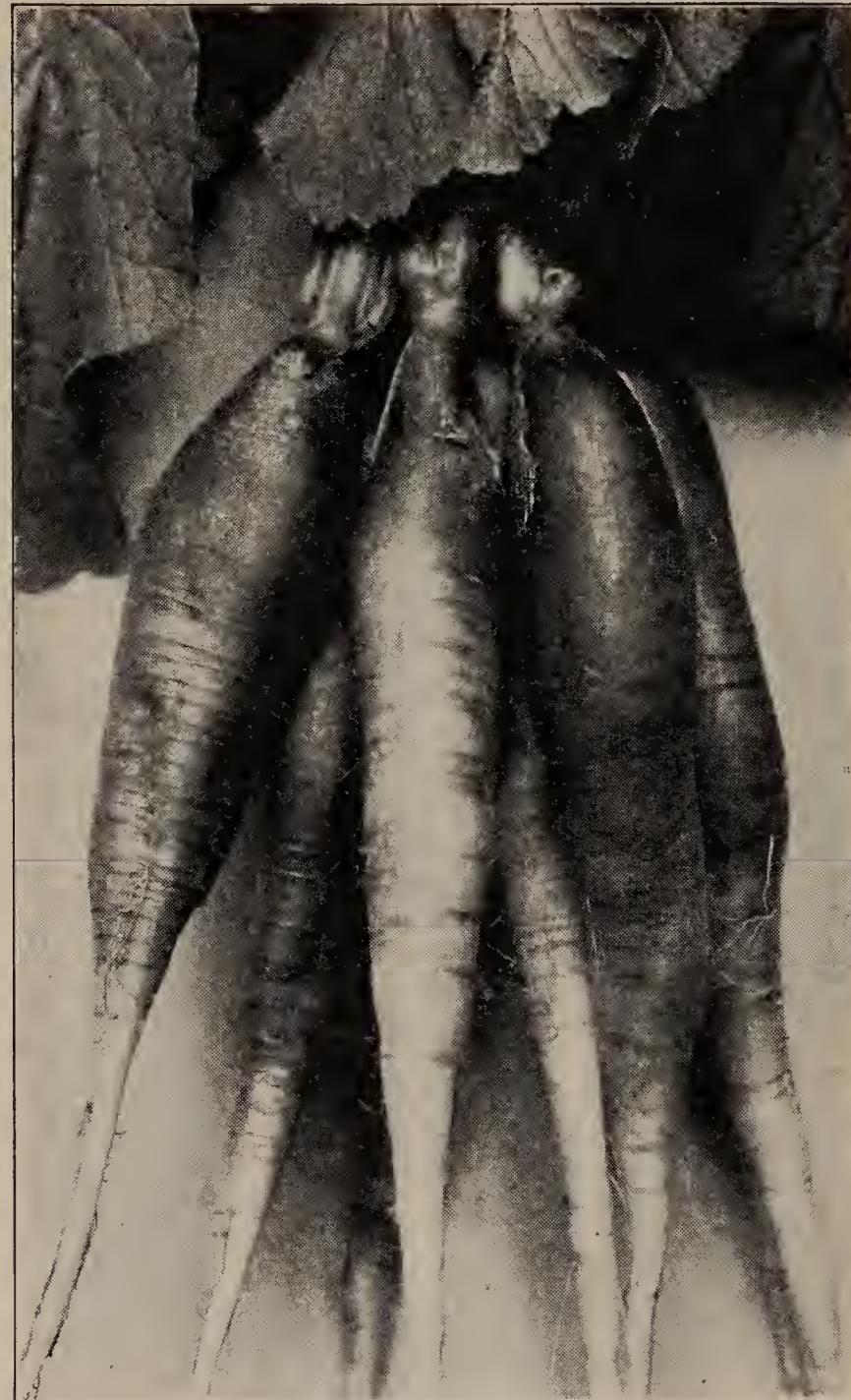
One ounce sows 75 ft.; 6 to 8 lbs. per acre.

309 MAMMOTH SANDWICH ISLAND. The best sort, which is much larger and a great improvement over the old-fashioned long sort.

Pkt., 10c; oz., 25c; 1/4 lb., 65c.



King of Denmark Spinach.



Cincinnati Market Radish.

SPINAT (Ger.)

SPINACH

SPINACE (It.)

Has long been one of the most popular of all greens and in some sections is grown in enormous quantities. In this locality Spinach is sown broadcast in March or April for early crop and from July to September for fall and winter crop at the rate of about 10 to 15 lbs. per acre. It can also be sown in drills 12 to 15 inches apart and cultivated.

One ounce sows 50 ft. of drill. 15 pounds per acre in drills. 20 pounds per acre, broadcast. One-half pound is sufficient for a medium garden.

310 KING OF DENMARK. This variety is superior to all others for spring planting, under the same circumstances, in the matter of standing a longer time before going to seed. Has an abundance of dark green leaves of large size and very much crumpled and of fine quality. It is fit for use in thirty days from sowing and remains in good condition fully 2 weeks after other varieties have started seed-stalks.

Pkt., 5c; 1/4 lb., 15c; 1 lb., 40c.

311 BLOOMSDALE SAVOY (or Norfolk). A very early sort especially desirable for fall use. Plant is upright, having glossy, thick, crumpled, pointed, green leaves. A favorite sort for market gardeners and truckers.

Pkt., 5c; 1/4 lb., 15c; 1 lb., 40c.

312 ROUND THICK LEAF. One of the best sorts for spring sowing as it is somewhat slower to go to seed than Bloomsdale. Plant upright, vigorous; leaves large, thick, fresh bright green color.

Pkt., 5c; 1/4 lb., 15c; 1 lb., 40c.

313 BLIGHT-RESISTANT SAVOY. (See page 2). A blight-resistant strain of the Savoy-Leaved Spinach developed at the Virginia Experiment Station, making it possible to grow Spinach successfully on infected soil.

Pkt., 5c; 1/4 lb., 15c; 1 lb., 40c.

314 NEW ZEALAND. An especially desirable sort for summer use as it thrives during hot weather in any soil, rich or poor. It has tender shoots of good quality which may be cut throughout the summer. Plant becomes very large and spreading; leaves small, broad and pointed. Plant 3 or 4 seeds in hills 2 ft. apart each way. Germination will be hastened by soaking in warm water 24 hours before planting.

Pkt., 5c; oz., 10c; 1/4 lb., 25c.



Giant Summer Straightneck Squash.

323 JUDY'S PRIDE BURLEY. This variety has won great popularity in certain sections of Kentucky and Tennessee, and we think it is a good stand-up Burley. The leaf is broad, long and tapering, with prominent white ribs. The stalk is strong and holds the leaves well up off the ground. It has every characteristic of an excellent Burley and should produce a bright leaf of high quality. **Pkt., 10c; 1/2 oz., 30c; oz., 50c.**

324 KELLY'S TYPE WHITE BURLEY. A heavy yielder of rich, bright leaf, large, long and broad. It is fast becoming the most popular type of Burley and is largely grown by planters in all Burley sections. **Pkt., 10c; 1/2 oz., 30c; oz., 50c.**



Pritchard or Scarlet Topper Tomato.

KUERBISS (Ger.)

SQUASH

CALLED CYMLING
IN THE SOUTH

ZUCCA (It.)

Summer squash requires one ounce to 30 hills. Winter varieties one ounce to 15 hills and 3 to 4 pounds per acre. **Culture.** Plant when the weather has become settled and the ground fairly warm. Bush varieties are planted 3 x 4 ft.; running varieties 6 x 8 ft.; about 4 to 6 seeds per hill and thin out later leaving the strongest plants about 3 to the hill. Hills similar to those made for Cucumbers with well-rotted manure or fertilizer are best. Winter varieties may be stored in a moderately warm dry place of even temperature.

Summer Varieties

315 GIANT SUMMER STRAIGHTNECK. This new summer Squash has almost entirely replaced the Crook-neck type, in both home and commercial gardens. It differs from the Crookneck only in shape; the "neck" instead of being curved is straight and more attractive in appearance and much easier to pack in crates for shipping. The fruit is of large size and clear light yellow color. Plants bushy, vigorous growing and productive. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25.**

316 EARLY YELLOW SUMMER CROOKNECK. An extensively used summer sort, with bush type of plant, and very prolific. Fruits curved at neck and weighing about 3 pounds. Color is light yellow at early stage and covered with warts. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25.**

317 MAMMOTH WHITE BUSH. A well-known early variety, largely planted in the South both for market and home use. Color is creamy white with comparatively smooth surface, somewhat flattened and scalloped. Vines are bushy, vigorous and very productive. Known as Patty Pan and Cymling in the South. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25.**

Winter Varieties

318 TABLE QUEEN or DES MOINES. (See page 2). Also called Acorn. Desirable for home and market garden use. Trailing in habit, with acorn-shaped fruits, ribbed, smooth, thin shelled, dark green. Flesh light yellow, bakes well; sweet, inviting flavor. Early maturing. **Pkt., 5c; oz., 15c; 1/4 lb., 50c; 1 lb., \$1.50.**

319 IMPROVED HUBBARD. One of the best winter squashes, flesh bright orange-yellow, fine grained, very dry, sweet and richly flavored. Fruit large, oval-shaped; skin dark green, rough, covered with warts. Excellent keeper. **Pkt., 5c; oz., 15c; 1/4 lb., 50c; 1 lb., \$1.50.**

320 GOLDEN HUBBARD. Similar to the old Hubbard excepting the skin is of a rich orange-red and heavily warted, flesh of extra fine quality. **Pkt., 5c; oz., 15c; 1/4 lb., 40c; 1 lb., \$1.25.**

321 WARTED HUBBARD. Similar in fruit and shape to Hubbard except that the surface is very much warted. It is very handsome in appearance and of extra quality. **Pkt., 5c; oz., 15c; 1/4 lb., 50c; 1 lb., \$1.50.**

322 BANANA. Excellent winter squash. Fruit 18 to 24 inches long and about 7 inches in diameter. Skin gray-blue and not so hard as that of the Hubbards. Flesh fine grained, deep yellow, dry, sweet. **Pkt., 5c; oz., 15c; 1/4 lb., 50c; 1 lb., \$1.50.**



Table Queen Squash.

TOBACCO

TABAK (Ger.)

TABACCO (It.)

Culture. The seed is sown from February to April in open beds. Ground must be clean, very finely pulverized, raked fine and smooth. It is customary to burn over the top of the bed by piling brush or litter to destroy weed seeds and add fertility for the young plants. After sowing, beds are protected with thin cotton cloth similar to cheese-cloth to protect them from Tobacco flies. About June 1st the plants are set in rich or highly fertilized ground in rows 4 feet apart each way. An ounce sows about 50 sq. yds., sufficient to set 2 or 3 acres.

323 JUDY'S PRIDE BURLEY. This variety has won great popularity in certain sections of Kentucky and Tennessee, and we think it is a good stand-up Burley. The leaf is broad, long and tapering, with prominent white ribs. The stalk is strong and holds the leaves well up off the ground. It has every characteristic of an excellent Burley and should produce a bright leaf of high quality. **Pkt., 10c; 1/2 oz., 30c; oz., 50c.**

324 KELLY'S TYPE WHITE BURLEY. A heavy yielder of rich, bright leaf, large, long and broad. It is fast becoming the most popular type of Burley and is largely grown by planters in all Burley sections. **Pkt., 10c; 1/2 oz., 30c; oz., 50c.**

LIEBESAPFEL (Ger.)

TOMATO

POMO D'ORO (It.)

Culture. For earliest crop sow in a hotbed or shallow boxes in February or March, transplanting when 2 or 3 inches high to small pots, trays or cold frames. When danger of frost is past (usually in this climate the 1st to 10th of May), set in open ground 3 x 4 feet apart. Tomatoes should be staked to keep the fruit from the ground and it will also help to prevent blight, mildew and make them more prolific.

One ounce produces about 2,000 plants; 2 ounces produce enough plants to set one acre. For early crops sow in February; for late crops sow in open bed in April or May.

Wilt-Resistant Tomatoes

The loss caused by tomato wilt is increasing each year. Wilt is a fungus that lives in the soil and invades the plant through its roots. When diseased tomato vines are plowed under they only serve to increase the infection. In the early stages of the disease the leaves curl, later they turn yellow, beginning at the bottom of the plant which slowly dies, usually about the time the fruits are half grown. No amount of spraying will do any good—the only means of controlling wilt is to grow wilt-resisting varieties.

325 PRITCHARD or SCARLET TOPPER. (See page 2). A scarlet, disease-resistant variety originated by the late Dr. F. J. Pritchard of the U. S. Department of Agriculture, in 1931. It is a cross between Marglobe and Cooper's Special, and has inherited fine qualities from each parent; heavily productive. Fruits large, smooth, globular, solid, with thick walls and cross sections. **Pkt., 10c; oz., 50c; 2 ozs., 85c; 1/4 lb., \$1.50.**

326 BREAK O' DAY. This new early wilt-resistant tomato was developed by Prof. Pritchard of the U. S. Department of Agriculture at Washington. The fruit is the same color, shape, size and solidity as Marglobe, but ripens 10 to 15 days earlier. A wonderful yielder and the only extra early tomato that is of a deep globe shape and good bright red color. Very solid fruits and few seeds; does not crack, making it a wonderful shipper. **Pkt., 10c; oz., 50c; 2 ozs., 85c; 1/4 lb., \$1.50.**

327 MARGLOBE—WILT-RESISTANT. Very productive second-early variety. Fruits large, smooth, meaty, red, globular. It will stand up longer after it becomes flushed than any other variety of tomato. Highly resistant to wilt and somewhat resistant to blights. **Pkt., 10c; oz., 50c; 2 ozs., 85c; 1/4 lb., \$1.50.**

328 NORTON—WILT-RESISTANT. Norton was developed from the Stone, ripens at the same season, and can be classed as a wilt-resistant Stone, but a more abundant bearer and the fruits are more solid. It yields a heavy crop of large, smooth, solid red fruits that ripen slowly, therefore is a good keeper and a good shipper; it is also remarkably drought-resistant. An excellent Tomato for home use, garden, for canning and for the late market. **Pkt., 10c; oz., 35c; 2 ozs., 60c; 1/4 lb., \$1.00.**

TOMATOES—Continued.

329 BEAUTY. One of the most satisfactory and popular sorts. Fruits are purplish pink, ripen evenly, are uniform in size, very solid and of finest quality. They are exceptionally smooth and do not crack readily. Vines large, vigorous and very productive, ripening fruits about midseason. **Pkt., 5c; oz., 35c; 1/4 lb., \$1.00.**

330 BONNY BEST. The fruits of this desirable early sort are most attractive in shape and color. The crop ripens more uniformly than any other early scarlet fruited sort. The vines are vigorous and produce a good crop of exceptionally round and deep fruits, bright deep scarlet in color and of very good quality. **Pkt., 5c; oz., 35c; 2 ozs., 60c; 1/4 lb., \$1.00.**

331 CHALK'S EARLY JEWEL. A particularly desirable sort with purplish scarlet fruit, nearly round, smooth, of large size and of most excellent quality. Fruit ripens early and not inclined to crack, is early and pickings are extended over a long season. **Pkt., 5c; oz., 35c; 2 ozs., 60c; 1/4 lb., \$1.00.**

332 CINCINNATI PURPLE. A favorite sort in this locality and one of the very best for home use. It is very round, smooth, solid and of splendid flavor. Vines are vigorous and remarkably productive. Fruits of large size, very meaty; have small seed cells and are of rich flavor. **Pkt., 10c; oz., 50c; 2 ozs., 85c; 1/4 lb., \$1.50.**

333 CRIMSON CUSHION or BEEFSTEAK. Is very large, round and regular; bright scarlet skin, solid flesh of best quality, seed cells small. Plants are very prolific and of fine appearance. **Pkt., 10c; oz., 70c; 2 ozs., \$1.20; 1/4 lb., \$2.00.**

334 DWARF CHAMPION. An early variety which is very dwarf growing. The vines are so stiff that they are generally self-supporting. Fruits medium size, purplish red and borne moderately early. On account of its strong, upright growth, it is sometimes sold as Tree Tomato and is desirable on extremely rich soil and where tall varieties have a tendency to make too much vine. **Pkt., 10c; oz., 60c; 2 ozs., \$1.00; 1/4 lb., \$1.75.**

335 EARLIANA. A deep scarlet, very early variety. Fruit is borne in clusters, is medium to large, nearly round, and exceptionally smooth for so early a variety. On account of its extreme earliness and the fact that the crop ripens uniformly and very early it is one of the most valuable of the early sorts. **Pkt., 5c; oz., 40c; 2 ozs., 70c; 1/4 lb., \$1.25.**

336 EARLY DETROIT. A very productive second early purple Tomato, uniform in size of fruit, free from cracks and does not blight easily. Fruit large and smooth. Vines vigorous and quite productive. Quality excellent. **Pkt., 5c; oz., 35c; 2 ozs., 60c; 1/4 lb., \$1.00.**

337 GOLDEN QUEEN. A large growing variety bearing abundantly. Fruits are golden yellow color, smooth, well shaped and desirable for slicing as a contrast with red varieties on the table. **Pkt., 10c; oz., 50c; 2 ozs., 85c; 1/4 lb., \$1.50.**

338 JOHN BAER. Similar in every respect to Bonny Best, but often a few days earlier. Fruits bright deep scarlet-red; medium large; flattened globe-shape; smooth and firm. **Pkt., 5c; oz., 35c; 2 ozs., 60c; 1/4 lb., \$1.00.**

339 JUNE PINK. An extra early, purplish pink sort, similar to Earliana except in color. It is a valuable variety for market gardeners and truckers, especially on markets where purplish sorts find ready sale. **Pkt., 5c; oz., 40c; 2 ozs., 70c; 1/4 lb., \$1.25.**

340 OXHEART. Because of its oxheart shape, large size, as well as excellent table qualities, it has quickly come into general favor. The skin is pink and the flesh frequently shows 2 inches thick, without a seed cavity. The flavor has that delicious tomato quality that every lover of this fruit knows so well. **Pkt., 10c; oz., 80c; 2 ozs., \$1.40; 1/4 lb., \$2.50.**

WEISSE RUBE (Ger.)

TURNIPS

NAVONE (It.)

One of the easiest crops to grow and profitable for stock feeding and in most cases for markets. They cost so little to grow, make splendid nutritious feed and should be more generally used.

Culture. For early use, sow in March or April either broadcast, or in drills, using preferably Milan or Purple Top Strap Leaf or Globe.

Turnips for main crop are sown from July to September 15th, broadcast 1 1/2 to 2 lbs. per acre. An ounce will sow about 300 feet. Turnips for greens can be sown as late as October 1st, and require 3 to 4 lbs. per acre.

349 EARLY PURPLE TOP MILAN. Extra early variety which is very sweet and particularly valuable for sowing in early spring. Roots are medium size, plants purple, top flat. Best for private gardens and preferable to grow for early market crop. **Pkt., 5c; oz., 15c; 1/4 lb., 35c; 1 lb., 85c.**

350 PURPLE TOP STRAP LEAF. A well-known early sort which is largely used in all sections. Our stock is extra choice. **Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.**

351 PURPLE TOP GLOBE. A very superior strain, producing large smooth roots, which are sweet and tender. One of the best for early or main crop use. Excellent either when young or fully matured. **Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.**

352 EARLY WHITE FLAT DUTCH. Similar to Early Purple Top Flat, excepting that it is white all over. Quick grower, excellent quality and splendid for early crop.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.

353 LARGE WHITE GLOBE. Flesh white, firm and crisp; a very desirable early variety. **Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.**

354 WHITE EGG. An early, oval variety with smooth, clear white roots, medium size, which grows half out of the ground; top small; flesh clear white, fine grained, sweet. Excellent either when young or fully matured. **Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.**

355 LONG WHITE COW HORN. These often grow 12 to 15 inches long and are a valuable crop for stock feed; flesh is white, well flavored and good for table use.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.

356 SEVEN TOP. Used entirely for greens and very popular in the Southern States.

Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 60c.

Rutabaga or Swedish Turnips

Rutabagas require longer to mature than the common turnips and should be sown earlier. To get heavy crops of large turnips sow the seed June 15 to July 1 in rows 2 to 2 1/2 feet apart. Thin the plants to a foot apart. Rutabagas make excellent winter feed for sheep. For table use, rutabagas can be sown later and will be of better quality, but not as large as when sown early. These turnips keep well and may be stored in the cellar in moist sand or in pits for use during the winter.

358 AMERICAN PURPLE TOP. Our stock of this is extra choice and can be depended on by the most critical growers. Rutabaga besides being best food for stock, is the sweetest of all Turnips for table use. **Pkt., 5c; oz., 10c; 1/4 lb., 25c; 1 lb., 75c.**



Marglobe Tomato.



Red Pear Tomato.

341 PONDEROSA. One of the largest and finest varieties for home use. It is purplish pink in color. Vines vigorous, tall, fairly productive. Fruits are very solid and have exceptionally few seeds. It is fairly smooth for so large a variety and sometimes attains such a size that one slice will cover a dinner plate. Very free from acid, has few seeds, is of delicious flavor and most excellent for slicing; ripens about midseason. Most desirable for home use, and the large showy handsome fruits are popular sellers for fancy fruit stands. **Pkt., 10c; oz., 65c; 2 ozs., \$1.10; 1/4 lb., \$1.90.**

342 PURPLE KING. One of the largest and best of the purplish pink varieties. Vines very vigorous and productive; fruits smooth, uniform in size, nearly globe shaped. It is an extremely early sort and of excellent quality. It is especially valuable for shipping. Purple King will become popular wherever grown. It is a very large, early sort and its freedom from cracking is a strong point in its favor. **Pkt., 5c; oz., 35c; 2 ozs., 60c; 1/4 lb., \$1.00.**

343 STONE. One of the very best Tomatoes producing large, very smooth, solid fruit slightly flattened, deep red color. It is very popular with all market growers and especially desired by canners. Ripens midseason. On account of its large yield and general uniformity in production we strongly recommend it for both market gardens and home use. **Pkt., 5c; oz., 30c; 2 ozs., 55c; 1/4 lb., 90c.**

344 TRUCKER'S FAVORITE. A large, deep purple variety, producing uniform size fruit. It is somewhat deeper color than Beauty; fruit being more globe shaped, largely used for main crop, producing fine yields of large, smooth, solid fruits which command best prices—hence very popular with truckers and market gardeners. **Pkt., 10c; oz., 60c; 2 ozs., \$1.00; 1/4 lb., \$1.75.**

Small Fruited Tomatoes

For preserves, pickles and decorative purposes.

345 RED CHERRY. Fruits small, round, rich deep red.

Pkt., 10c; oz., 50c; 2 ozs., 85c; 1/4 lb., \$1.50.

346 RED PEAR. Pear shape; about 2 inches long.

Pkt., 10c; oz., 50c; 2 ozs., 85c; 1/4 lb., \$1.50.

347 YELLOW PEAR. Pear shape, about 2 inches long.

Pkt., 10c; oz., 50c; 2 ozs., 85c; 1/4 lb., \$1.50.

348 YELLOW PLUM. Fruits oval; about 2 inches long; clear deep yellow.

Pkt., 10c; oz., 50c; 2 ozs., 85c; 1/4 lb., \$1.50.

Tomato Plants

Leading varieties in season. We do not send these plants by mail.



Calendula, Frilled Beauty.

Calendula, Frilled Beauty

Although similar in appearance to Calendula Orange Shaggy introduced last year, Frilled Beauty is actually quite distinct from it. The flowers are large and full, completely double, with good stiff petals which are semi-rounded in appearance. Stems are long and fine for cutting. The color is a deep orange. Pkt., 25c. Special packet, 75c.

Dianthus Superbus, Loveliness

Stately and magnificent in habit of growth, yet delightfully charming and informal in flower form, this new garden Pink is one of the finest of the newer cut flower varieties. The plants are 12 to 15 inches tall, of good branching habit and very free-flowering. The shaggy appearing, finely fringed flowers of delicate rosy lilac are highly sweet-scented and measure from $1\frac{1}{2}$ to 2 inches across. They are fascinating in the garden, and exquisitely dainty in flower arrangements. Pkt., 20c. Illustration, see page 23.

Dianthus, Little Jock Hybrids

Not more than 6 to 8 inches high, the compact plants produce a multitude of prettily fringed flowers, about an inch across, in varied tints of pink, rose and white, mostly with a deep zone, and quite 50 per cent of them are double. Pkt., 35c.

Dianthus Winteri

Striking new pinks awarded first class certificate by Royal Horticultural Society of England. The flowers are of bold form, pure colors, habit compact, and flowers first year from seed, deliciously scented, ideal rock plants, quite hardy. Pkt., 25c.

Flower Seed Novelties

The descriptions are

Rust-Proof Snapdragons

The introduction of the New *Rust-Proof Snapdragon should be welcome news to the gardener who finds the Snapdragon among his garden favorites.

It will be a joy to see these plants with their clean healthy foliage free from rust.

*Rust is that disease which causes a burned or blighted appearance on the foliage.

PINKIE. This is a very early flowering strain; it is especially fine for greenhouse forcing, as well as for general garden use. It is of the tall and robust growing type, producing numerous fine cutting spikes of large, well-spaced florets, of a delightful shade of pure clear rose. Will come about 90 per cent rust-resistant. Pkt., 25c. Special packet, 75c.



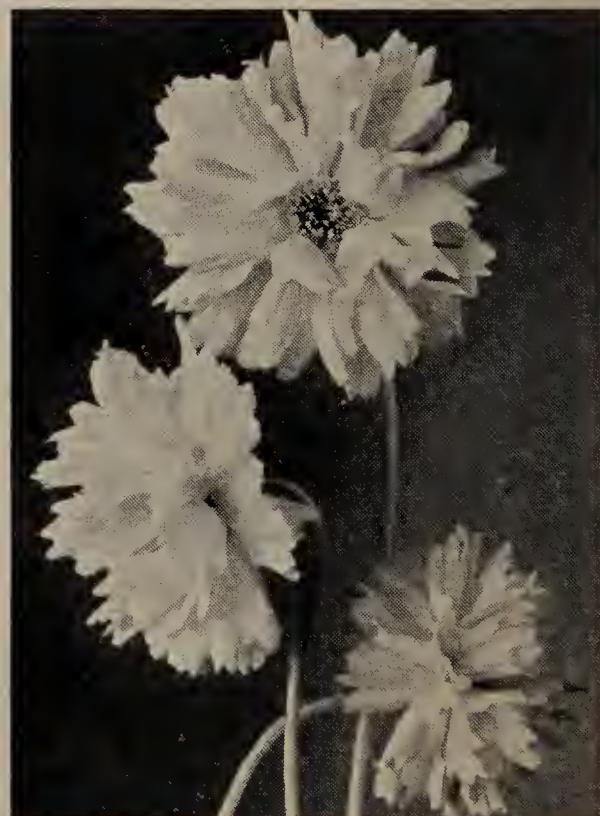
Cornflower, Jubilee Gem.

Cornflower, Jubilee Gem

Jubilee Gem is a dwarf variety of Cornflower making a compact plant literally covered with flowers. It has foliage distinct from all other Cornflowers, forming a tufted mass of vivid green, contrasting well with the dark but vivid double blue flowers. The plant is about 12 inches in height. Pkt., 25c.

Dahlia, Zulu Strain

These are black leaved dwarf double hybrids, with flowers of various shades of crimson and scarlet, enlightened by a few orange golden and lilac blooms. The plants are compact but vigorous, each flower born on a very strong straight stem. Will prove a very effective bedding strain. Pkt., 35c.



Coreopsis, Double Sunburst

Much of the beauty of early summer gardens is due to the brilliant golden yellow of Coreopsis plantings. There is nothing that can take its place at that time of year when yellows are so scarce, and when variations in the type are produced, they are welcomed gladly. Sunburst is a pleasant change from the well-known single form, retaining its beauty of color while augmenting its effect of brilliance through the doubling of petals. The double flowers are large, $1\frac{1}{2}$ to 2 inches across, deep golden yellow, and are excellent for cutting as well as for garden decoration. The flowers are fine keepers, and the plants are very easy to grow. The strain is remarkably true, coming 80 per cent double, as illustrated. Pkt., 20c. Special packet, 60c.

Dianthus, Roysi

One of the finest. Cushions of silvery foliage covered in summer with unusually large rosy blossoms. Pkt., 25c.

Coreopsis, Double Sunburst.

and Specialties for 1936

those of the raisers

Dahlia, Unwin's Ideal Bedding Mixed

Unwin's Dwarf Bedding Dahlias are already firmly established in popular favor. The latest development will most certainly surpass previous strains in beauty of form and value in bedding.

In most characteristics they closely resemble the older race of Unwin's Hybrids. Reaching 24 inches in height, they are of pretty habit, exceedingly free-flowering, and carry their blooms stiffly erect on wiry stems, well above the foliage. The main difference lies in their petal formation, which is partly curled; they are perhaps more accurately described as semi-quilled. As can be well imagined, this most effectively enhances their great lightness and charm.

The color range is exceedingly wide, and they come remarkably true-to-name and form. This strain of dwarfs is very precocious, blooming about $3\frac{1}{2}$ months from the time of sowing; from late summer until the first severe frost, they give a truly wonderful display. Pkt., 25c. Special pkt., 75c.

Gilia Liniflora

A new subject for cut flower use. A very easily grown, attractive annual. The plants are neat, upright and semi-compact in habit, 12 to 15 inches high, covered with dozens of the dainty single flaxlike flowers which are borne on long stems.

WHITE SWAN. Snowy white.
Pkt., 15c. Special pkt., 50c.

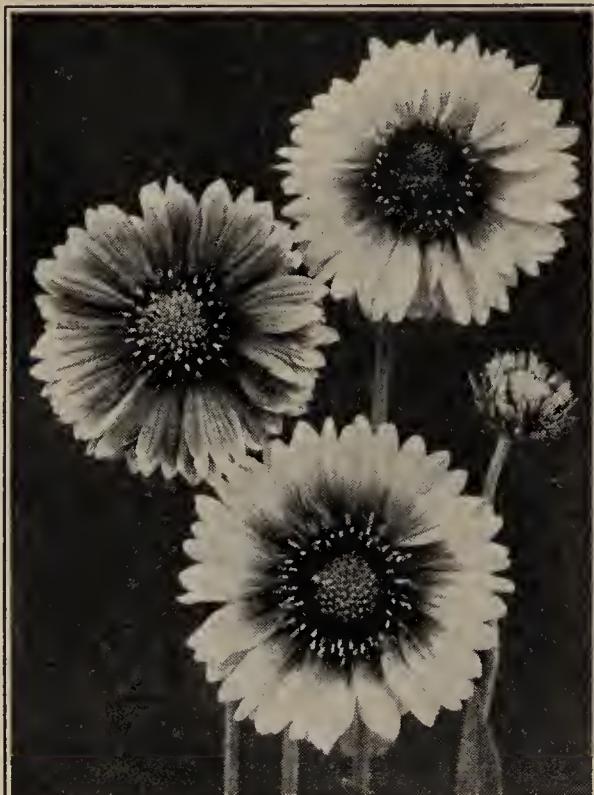
BUNCH OF LILAC. Clear lavender-blue.
Pkt., 15c. Special pkt., 50c.

Gazania Splendens

A very showy half hardy perennial which flowers the first year from an early sowing. The plants are low growing, with a goodly quantity of long stemmed, showy daisylike flowers in brilliant shades of orange and yellow, as well as cream and white. Each flower is marked at the base of the petals with black, brown, or green spots. It is fine for summer bedding or border work, doing best in a sunny location. Pkt., 20c.



Dahlia, Unwin's
Ideal Bedding Mixture.



Gaillardia, Perennial (Monarch Strain, Mixed).

Perennial Gaillardia Monarch Strain Mixed

Many years have been spent to evolve a strain of mixed perennial Gaillardia which would produce from seed, plants that, in form and flower, would equal the quality to be found in the better-named varieties. This strain contains those characteristics and each and every flower is perfect in form and coloring, and the plants have a robustness seldom found in Gaillardia. The blooms are large and full petalled, and it is almost impossible to find any of the objectionable wheeled forms that so frequently appear in mixtures from seed.

The ground coloring is, of course, golden yellow in varying tones, but the zones differ both in color and character to an amazing degree. Pkt., 20c.

Petunia, Flaming Velvet

Winner of the gold medal in the All-America Contest for 1936. The color is outstanding, being a brilliant velvety scarlet, of excellent type and very uniform. A very striking Petunia and having very few off-color flowers. Pkt., 25c.

Petunia, Single Fringed Dainty Lady

Not for many years has an entirely new color in Petunias been introduced to the gardening public. Various new shades of rose, pink, blue and crimson may be expected from season to season, but we now present for your critical approval a distinct new hue in the Petunia color cycle—delicate golden yellow. Dainty Lady, the remarkable new Petunia introduction, is to the best of our knowledge, the first really yellow Petunia. It has been in the process of development for the past ten years, gradually but surely deepening the color, until this season it is ready for presentation.

The plants are neat, compact, semi-dwarf and free-flowering, bearing generous quantities of the medium-sized, delicately-fringed light golden yellow flowers throughout the summer.

Award of Merit 1936 All America Selections. Also award of merit by the Royal Horticultural Society of England. Pkt., 35c.

Miniature Petunia, Rose Gem

Rose Gem is a charming addition to the new miniature group of Petunias which was started with Pink Gem. Rose Gem is the color which the public has been asking for in this miniature form. It is the rich deep rose that has made Petunia Rose of Heaven so popular. The plant is neat and compact, five to six inches high and smothered with rich rose-colored blooms about two inches in diameter. Award of Merit 1936 All America Selections. Pkt., 25c.

Balcony Petunia

BLACK PRINCE. Deep velvety red. Pkt., 20c.



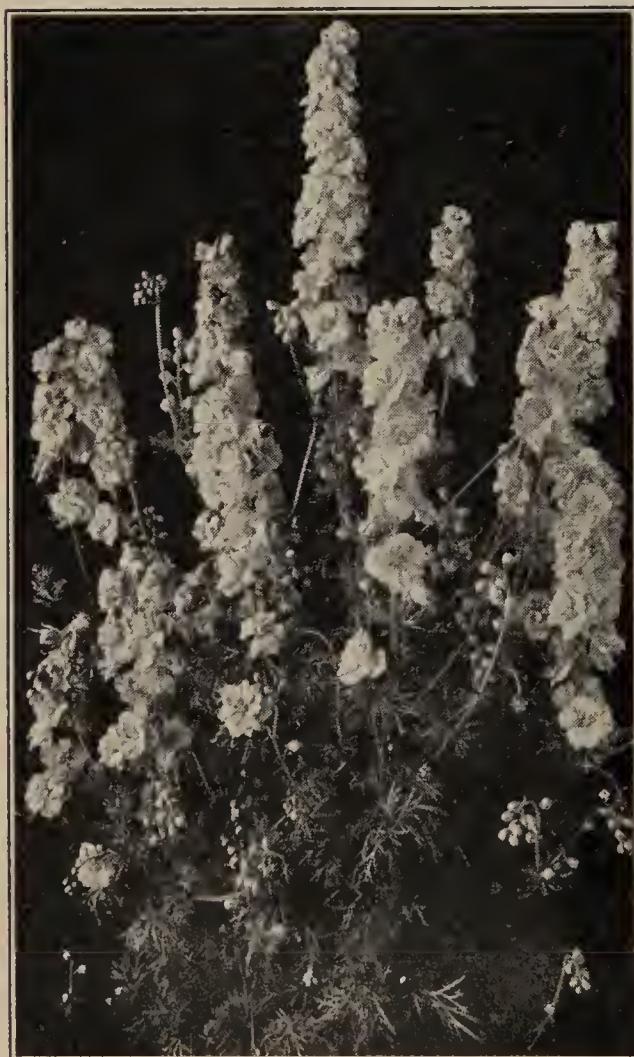
Dianthus Superbus, Loveliness.



Nasturtium, Dwarf Double Gem Mixture.

Larkspur, Stock Flowered Rosamond

This striking new Larkspur was awarded a Gold Medal in the All-America Selections at the 1934 Trial Gardens. There are three points in which Rosamond is outstanding. The color is new and distinct, a pure bright rose, which has been entirely lacking in Larkspurs up to this time. This variety does not fade badly but to the contrary it possesses that rare quality of holding the pure rose color until out of flower. It is two weeks earlier than any other stock-flowered varieties, giving a good cut flower before other Larkspurs are available. Exceptionally uniform in height. 4 feet tall, with numerous good spikes heavily covered with full double flowers. Pkt., 15c. Special pkt., 50c.



Larkspur, Double Stock-flowered Rosamond.

Flower Seed Novelties

The descriptions are

Marigold, Dixie Sunshine

Brilliant golden yellow 100 per cent fully double. Large, ball-shaped flowers; petals interlocking forming a daintily fringed effect. Pkt., 20c. Special pkt., 60c.

Yellow Supreme Marigold

Flowers full double, creamy lemon-yellow, a little larger than those of Guinea Gold. Plants 2 to 3 feet tall, without the usual odor, and are free-blooming. A splendid companion for Guinea Gold. Pkt., 20c. Special pkt., 60c.

Marigold, Dwarf Double French Harmony

A charming and distinct variety bearing unusual flowers of scabious-like formation, each bloom is of a good size and has a central deep orange crest which is surrounded by a maroon-brown collar of broad petals. Height about 12 inches. Pkt., 20c. Special pkt., 60c.

Nasturtium, Dwarf Double Gem Mixture

Our Gem Mixture, composed of an evenly balanced range of cheerful colors on dwarf, compact gem-like plants, is the ideal annual for border and edging use. The plants are truly dwarf and compact, totally without runners, and hold their compact form even in rainy climates where they will be a boon to garden makers. We feel sure that for general use this Gem Mixture will be even more popular than the Gleams. At the California International Exposition in San Diego, where they are being exhibited, they are making a big hit with all visitors. The good-sized sweet-scented double flowers gaily cover the little plants in an excellent color range which includes shades of yellow, orange, scarlet, crimson, salmon, cerise, cream, maroon and spotted varieties. While a majority of the plants have light foliage there are many dark foliage plants as well. Pkt., 25c. Special pkt., 75c.

Nasturtium, Dwarf Double Golden Globe

Identical in color with the popular Golden Gleam, its habit and trueness to type also compare favorably with the excellence of Golden Gleam. Uniformly dwarf and compact, Golden Globe is the first named color variety in the new Gem type of Nasturtium. It is very free-flowering, and the well-formed double flowers of deep golden yellow are delicately sweet-scented. Golden Globe will be justly popular. Pkt., 20c; 3 pkts., 50c.

Nasturtium, Double Sweet-Scented Orange Gleam

Orange Gleam is the finest Gleam Nasturtium since the first introduction, Golden Gleam. The flowers are very large, uniformly double and profusely free-flowering, while the color is entirely new in the Nasturtium family—a deep glowing golden orange, with a deeper shading at the center. The plants are semi-dwarf, bearing the flowers well above the light green foliage on long, wiry stems. The sweet scent characteristic of all the Gleams is very pronounced, making the flowers especially fine for any garden or cutting use. Pkt., 25c. Special pkt., 75c.

Nasturtium, Double Sweet-Scented Scarlet Gleam

Greatly improved over our 1934 stock, the strain of Scarlet Gleam we are offering this season is equal to the finest Gleam developed. Fully double, of the same type as Golden Gleam, the flowers are large and full petaled, waved and fluted in effect, and extremely showy. Completely covering the foliage of the plant, the long-stemmed orange-scarlet flowers make a dazzling splash of color which is hard to duplicate. Richly sweet-scented, Scarlet Gleam is ideal for garden or cutting use. Pkt., 20c; 3 pkts., 50c.

Nasturtium, Double Sweet-Scented Glorious Gleam Hybrids

Delightfully sweet-scented, beautifully double and in a remarkable color range, they fulfill all requirements for an all-round garden favorite. The semi-dwarf plants throw short runners from well-rounded free-flowering bushes, and bear showy masses of the bright, double flowers on long stems above the lush green of the foliage. The color range includes a brilliant blend of salmon, golden yellow, orange scarlet, cerise, cream, orange, maroon and crimson shades, as well as many spotted varieties. Pkt., 20c; 3 pkts., 50c. Special pkt., 75c.

Nasturtium, Lilliput Salmon Queen

New Nasturtiums are always welcome, for our catalogs contain no more colorful and attractive garden plants.

Salmon Queen as the name denotes, is deep salmon-rose in color and throws its flowers well above the foliage, making an exceptionally bright effect in the mass.

It is without doubt, the prettiest of the Lilliput section, a distinct race of dwarf Nasturtiums, remarkable for its profusion of flowers, which are thrown well above the small foliage. Neat, compact habit. Salmon Queen is a new color which should find a welcome with all gardening enthusiasts. Pkt., 20c.

and Specialties for 1936

those of the Raisers

New Early Flowering Sweet Pea, Shirley Temple

This beautiful variety was obtained through a cross between Pinkie and Lady Gay. It has inherited blooms with the size and richness of color in Pinkie plus the dainty frilled and fluted flowers of Lady Gay. The color is softer and more beautiful than Pinkie. The flowers are the largest ever seen on any Sweet Pea and it has long stems with four very large blooms on each stem.

This new Sweet Pea is so charming and dainty that it deserved the most appropriate name that could be found. With the kind permission of Mr. and Mrs. Temple, it is named in honor of their daughter, the charming and lovely little cinema favorite, Shirley. Pkt., 25c.

Salvia Farinacea, Blue Bedder

A more compact form of the graceful *Salvia Farinacea*, growing about 2½ feet high, and with a better habit, the plants branching freely from the base. The flowers borne on long terminal spikes, are of a bright mid blue, deeper than in the type, and very showy and effective. The plant is vigorous and fairly hardy, and may be had in bloom from August to October. Pkt., 20c.

Lovely New Viola

Violas bloom so freely that they are superior to pansies where effect is wanted, the colors being particularly clear and distinct, and they bloom for a longer time. Their cultivation is becoming more popular year by year. Like partial shade and plenty of moisture.

BLUE BUTTERFLY. This novelty in Violas resembles in color the Pansy, Lord Beaconsfield, but the flowers have the true *Viola* or Tufted Pansy shape. A perfect bedding *Viola* coming practically 100 per cent true from seed. Color is mid-blue, shading to white. Pkt., 35c.

For general list of *Violas*, see page 51.

Viscaria, Blue Pearl

Aptly named, this new *Viscaria* is so pure and delicate in color that it calls to mind immediately that particular refinement which makes the Pearl so attractive.

The plant is very free-flowering and has the advantage of being more tidy and erect in habit than the average *Viscaria*. The color, pure lavender-blue, is outstanding and differs from the other blue *Viscarias* to a degree which makes it absolutely distinct; the lack of "eye" which is a common character of most sorts, adds considerably to its distinction. Pkt., 20c.

Venidium Fastuosum Hybrids

Three years ago an excellent new flower from Africa burst upon the horticultural horizon, and was enthusiastically acclaimed by plant lovers as a coming cut flower. This was *Venidium Fastuosum*, the deep orange Monarch of the Veldt. Now there has been developed a strain of hybrids of this *Venidium* which is even more attractive than the original orange. The plants have the same habit and characteristics as the type, free-flowering, two to three feet tall, and blooming over a long period. The color range is varied and very interesting—apricot shades, creamy white, pure white, salmon shades, canary-yellow, golden yellow and the well-known orange. We find that the hybrids stand up much better in extreme heat than the original orange, and are thus more useful in the garden. Pkt., 25c.

New Zinnia, Fantasy Mixed

New Zinnias are always welcomed by home growers and florists alike. While the giant-flowered varieties are still popular, the trend of late years has been toward the smaller flowered, more graceful strains. This new Fantasy Mixture meets this demand in all details; the rounded flowers are composed of a mass of shaggy ray-like petals which give a delicate and refined appearance to the medium-sized double flowers, large enough to satisfy the desire for mass of color, yet small enough to lend themselves gracefully to flower arrangement. The color range includes the brightest shades of reds and orange, as well as the popular pastel pinks and cream. Pkt., 20c. Special pkt., 60c. Colored illustration see inside back cover.



Scabiosa, Fischeri.

Scabiosa Fischeri

A fine new border plant from Manchuria, hardy and truly perennial, growing about 20 inches high with handsome divided leaves and flowering well into the autumn. The flowers are about 2½ inches in diameter, borne on long stiff stems, and are of a rich deep violet-blue shade, unlike that of any other *Scabiosa*. This handsome plant, about 2½ feet high, will make an excellent addition to the herbaceous border, and furnish first-rate material for cutting. Pkt., 35c.



Venidium, Fastuosum Hybrids.



Seeds of Annual Flowers

The life of the true Annual does not extend longer than one season. Itself the product of a seed, the plant produces flowers, ripens its seed and perishes in the same year.

They have many advantages. The seeds of Annuals are inexpensive, the flowers can be enjoyed both by the home renter as well as the home owner. Because of their short period of growth, they can be used to fill up gaps in the Perennial border and to succeed plantings of spring-blooming bulbs, such as Tulips, Hyacinths, etc.

Annuals have a delicate beauty all their own and no plants surpass them in brilliancy for summer display. They furnish material for a whole garden, as well as cut flowers for home decoration.

A succession of bloom may be had by occasional sowing of many sorts, such as Alyssum, Candytuft, Eschscholtzia, Zinnias, etc. In the latitude of Cincinnati, Ohio, these sowings may be made as late as July 1st to 15th. Another method now being used more than ever is the autumn planting of Annual seeds for early spring bloom, such as Cornflowers, Gypsophila, Larkspur, Petunias, etc.

This year we have segregated the flower seeds, placing Annuals in one group, followed by Perennials, Vines and those for greenhouse culture. Consult the index if in doubt.

NOTE: We send out no untested seed and when failure occurs, we invariably find that the seed had been planted too deep or the soil has been permitted to become excessively dry, or the reverse, while germination is taking place.

Seeds of Annuals, unless otherwise noted, should be started indoors in a light, sifted soil with sand and humus or clean leaf-mold added. Water the soil thoroughly and allow to drain and then sow seed thinly in rows. Cover with paper or glass to conserve moisture. Plant out when all danger of frost has passed. Some Annuals may also be sown where they are to flower, the young plants later being thinned out.

All varieties marked with an ® throughout the list of Annual flower seeds are especially suitable for the rock garden.

Ageratum - Floss Flower

One of the best bedding plants, being literally a sheet of bloom from early summer till frost. Easily raised from seed started in a hotbed and in May transferred to the garden, 4 to 6 inches apart. Can also be sown outdoors in May.

④01 **DWARF BLUE CAP.** This is by far the best all around dwarf Ageratum yet produced. The plants are tiny mounds of flowers, which are large and compact and a deep rich blue. The foliage is small and inconspicuous, so the effect is that of a solid mass of flowers, making a narrow ribbon of color around a flower border. **Pkt., 15c. Special pkt., 50c.**

④02 **LITTLE BLUE STAR.** Compact with small, beautiful, mauve-colored flowers, suitable for edging or rock-work. **1/16 oz., 25c; pkt., 10c.**

④03 **BLUE PERFECTION.** Large heads of deep blue flowers in abundance. Fine for cutting. Height 12 inches. **1/8 oz., 25c; pkt., 10c.**

④04 **IMPERIAL DWARF BLUE.** Habit very dwarf and compact, well adapted for ribbon borders. Height 9 inches. **1/8 oz., 25c; pkt., 10c.**

④05 **VENUS.** Pink. Height 6 inches. **Pkt., 20c.**

Alyssum

A fragrant edging plant with small, white flowers in great profusion throughout the summer and autumn. Useful for borders and window-boxes. For Alyssum saxatile see Perennial List.

④06 **MINIMUM.** Miniature sort. The dwarfest of all; tiny, compact little plants only 2 inches high, smothered with small, pure white flowers. **1/4 oz., 25c; pkt., 10c.**

④07 **CARPET OF SNOW.** Of creeping habit, forming a dense carpet of beautiful white flowers. Height, 4 inches. **1/4 oz., 25c; pkt., 10c.**

④08 **TOM THUMB.** A splendid sort for edges, borders, or rock work. Height, about 6 inches. A compact mass of bloom 12 to 15 inches across. **1/4 oz., 25c; 1 oz., 75c; pkt., 10c.**

④09 **SWEET.** Height, about 8 to 10 inches but spreading. **Oz., 25c; pkt., 10c.**

④10 **LILAC QUEEN.** Is of dwarf, compact habit and the deep lavender-like flowers are borne in profusion. **1/4 oz., 25c; 1 oz., 75c; pkt., 10c.**

④11 **COMPACTUM LUTESCENS.** Dwarf, 8 inches. Cream or straw color. **Pkt., 10c; 1/4 oz., 25c.**

Amaranthus

Effective plants because of their brilliantly colored foliage. Flowers are interesting. Best in sunny positions on rather poor soil.

④12 **MOLTEN FIRE.** Brilliant Poinsettia-like tips. **Pkt., 15c.**

④13 **TRICOLOR** (Joseph's Coat). 2 1/2 ft. The inner foliage is of blackest bronze, tipped with green, the outer bright scarlet and gold. **Pkt., 10c.**

Anchusa

④14 **BLUE BIRD.** A dwarf compact type, 18 inches high, with indigo-blue blossoms. Blooms freely during late spring and summer. **1/4 oz., 25c; pkt., 10c.** For Anchusa Italica see Perennial List, page 43.

Arctotis

(Blue-Eyed African Daisy)

④42 **GRANDIS.** Forms much branched bushes 2 to 3 feet high; its flowers are large and showy, being pure white on the upper surface, the reverse of petals, pale lilac-blue; blooms early in July and continues until hard frost. It delights in a sunny situation. Half-hardy annual. **1/4 oz., 25c; pkt., 10c.**

Gorgeous Snapdragons

(Antirrhinum)

Snapdragons have been amazingly improved in size and color. They are hardy and should be sown early, as they germinate slowly. Unless very rich soil is provided and all plants are staked, the dwarf and semi-tall class will be most satisfactory in the garden. They are effective in beds of solid color, and require full sun. Keep seed pods picked off. If intended for winter flowering, cut back in September.

Rust-Proof Snapdragons

The introduction of the New *Rust-Proof Snapdragon should be welcome news to the gardener who finds the Snapdragon among his garden favorites.

It will be a joy to see these plants with their clean healthy foliage free from rust.

*Rust is that disease which causes a burned or blighted appearance on the foliage.

415 RUST-PROOF PINKIE. For description see Novelty page 22. **Pkt., 25c; special pkt., 75c.**

416 RUST-PROOF SHASTA. This is a pure white variety, very early flowering and exceedingly floriferous, throwing from six to eight spikes to a plant. This variety has a very distinct base branching habit. **Pkt., 20c; special pkt., 50c.**

417 RUST-PROOF CRIMSON. The color is pure crimson overlaying a ground of orange and gives the effect of a fiery crimson. This variety has a combination of fiery crimson flowers, dark green foliage and dark plum-colored stems which makes it particularly attractive. **Pkt., 20c; special pkt., 50c.**

418 UNIVERSITY OF CALIFORNIA MIXTURE. An excellent mixture of Rust-Proof Snapdragons, containing a wonderful range of the popular colors. **Pkt., 20c; special pkt., 50c.**

The New Majestic Snapdragons

These giant-flowering, semi-tall Snapdragons bring us flowers as large as those represented in the tall giant varieties offered below. The plants, however, are not as tall and are therefore better suited for borders and beds. They form well-rounded, symmetrical bushes, growing about 2 feet tall.

419 AVALANCHE. Masses of snowy white flowers.

420 DAWN O' DAY. The very large individual flowers open a pale rose-pink, quickly developing into a pure apricot, slightly suffused gold towards the center. Early flowering.

421 DELIGHT. A delicate salmon-pink, shading to apricot with a golden yellow center.

422 ELDORADO. This novelty is of a deep golden yellow, quite the richest tint yet produced in Snapdragons.

423 FAIR LADY. Very large individual flowers of a delicate flesh-pink tinged with a deeper shade of rose. Practically a self color, with no distinctive tint on the lip.

424 GOLDEN DAWN. A distinct color, golden buff overlaid with salmon. The general effect is a light orange.

425 ORANGE KING. The flowers are a lovely blend of rich terra cotta shades merging into a pure deep orange at the base, with a contrasting yellow lip.

426 PRIMROSE. Color is a beautiful primrose-yellow, deepening just a little towards the center.

427 RED CHIEF. A rich deep scarlet. Very bright. The individual blooms are extremely large.

428 ROSE BEAUTY. The color is a charming rose-pink and makes a most brilliant show both individually and when the plants are massed together in beds.

429 ROSELLA. This variety has the characteristic hyacinth-like spikes with enormous individual blooms of a rich glowing rose.

430 SUNSET. A bright terra cotta shading gradually into a rosy salmon. Viewed from the distance the general effect is rich salmon-red.

431 TWILIGHT. The delicate apricot with an old gold center and salmon shadings. The general color effect is a rosy salmon.

Price: Any of the above, 1/16 oz., 40c; **pkt., 15c.**

432 MIXED. A splendid mixture of the above named varieties. 1/16 oz., 35c; **pkt., 15c.**



Majestic Snapdragons.



Tom Thumb Snapdragons.

Tom Thumb Varieties

Suited for edging beds and pot plants.

441 DWARF, MIXED. This dwarf type of Snapdragon grows about 8 inches tall. The fine stocky plants are covered with heavy spikes representing many showy colors. Excellent for small beds and for edgings. **1/8 oz., 25c; pkt., 10c.**

PLEASE NOTE

All 100 packets, 3 pkts. for...	\$0.25
All 150 packets, 2 pkts. for...	.25
All 200 packets, 3 pkts. for...	.50
All 250 packets, 3 pkts. for...	.65
All 350 packets, 3 pkts. for...	1.00

Five Majestic Snapdragons

This collection contains 1 packet each: Delight, Orange King, Red Chief, Sunset and Twilight. (Value 75c) for **50c.**

Tall Giant Varieties

Bearing large spikes of enormous flowers in many brilliant colors. Our strain is extra choice.

433 APPLE BLOSSOM. A delicate apple-blossom pink with a touch of light yellow in the lip.

434 CANARY BIRD. Canary-yellow.

435 INDIAN SUMMER. Velvety copper-scarlet.

436 OLD GOLD. Deep golden yellow.

437 SNOW FLAKE. White with light yellow lip.

438 THE ROSE. Rose-pink. Price: Any of the above varieties, **1/8 oz., 35c; pkt., 10c.**

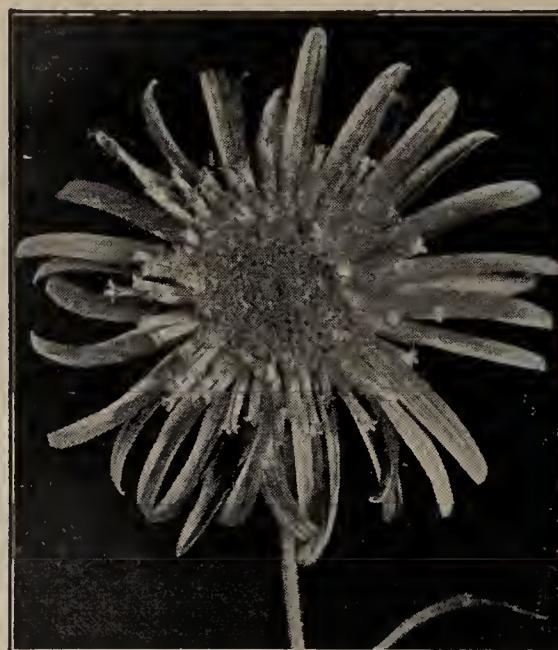
439 FINEST MIXED. All colors. **1/8 oz., 30c; pkt., 10c.**

Dwarf Snapdragons

440 DWARF ROCK HYBRIDS. Charming small compact plants with flowers in many different colors. Suitable for rock garden planting. **1/16 oz., 40c; pkt., 15c.**



Wilt-Resistant Aster, Golden Sheaf.



Sunshine Aster.



Crego Aster.

ASTERS—New Types and Wilt-Resistant Strains

Asters are the glory of our gardens in August and September, just when good flowers for cutting and garden display are wanted. To cut Asters abundantly as long as possible, several sowings should be made of the early and late flowering types. To succeed with Asters, sow the seed in flats in the house or hotbed in March. Transplant the seedlings two inches apart in boxes, and when they are large enough to handle, move to permanent beds in May. Make the second sowing in the cold frame the latter part of April, and the third sowing in the open ground about May. Set the plants of the early varieties ten inches apart, and of the later varieties eighteen inches apart. The richer the ground, the better your flowers will be, and water is very necessary.

New Super Giants

443 LOS ANGELES. The first variety of this giant race. The color is a serenely pure shell pink, flowers are full petalled, deep and unusually large, yet artistically graceful in the feathery effect of the interlacing petals. In the annual border, or cut flower bed in the garden, they stand above their fellow Asters and show up to best advantage when combined with a planting of the Blue Lace Flower, *Didiscus*. Pkt., 15c.

Giant Mammoth Peony-Flowered

The flowers are immense, very double, borne on long stout stems, free from laterals. Splendid for cutting as they keep longer than any other variety.

444 AZURE FAIRY. Clear azure-blue.

445 MAIDEN'S BLUSH. Delicate flesh.

446 PURPLE ROSE. Deep purple-blue.

447 ROSEBUD. Clear rose-pink.

448 SILVERY ROSE. Delicate lavender-pink.

449 SWANSDOWN. Pure white.

Price: Any of the above, pkt., 15c.

450 FINEST MIXED COLORS. Pkt., 15c; special pkt., 50c.

New Giant California Sunshine

451 FINEST MIXED COLORS. This lovely Aster has been rightly called the most beautiful Aster in the world. The flowers are large, 4 to 5 inches across, in shades of pink, apple blossom, deep rose, blue and lavender, contrasting with the light yellow or blue centers. The outer petals are somewhat loosely placed, giving an airy, lace-like effect which is altogether charming. This strain is not yet entirely fixed as to type. About 60 per cent to 65 per cent will be true. It should be borne in mind that the true type is the last to flower. Pkt., 15c.

OUR EMERALD LAWN SEED WILL PRODUCE A BEAUTIFUL LAWN
See inside front cover.

California Giant Asters

A new variety of the Crego type, with the robust habit of growth and long stems of the Beauty type. The flowers are much larger and more substantial than the Improved Crego. They measure 5 to 6 inches in diameter and stand up well when shipped as cut flowers. Their immense size and beauty, as well as their long and sturdy stems, make them very attractive.

452 WHITE.

453 PEACH BLOSSOM.

454 LIGHT BLUE.

455 DEEP ROSE.

456 DARK PURPLE.

Price: Any of the above, pkt., 15c; $\frac{1}{8}$ oz., 50c.

457 MIXED COLORS. $\frac{1}{8}$ oz., 40c; pkt., 15c.

2457 COLLECTION. One pkt. each, above 5 colors, 60c.

Aster (Wilt-Resistant) Golden Sheaf

459 GOLDEN SHEAF. Is the deepest yellow Aster yet offered, and the only one that is wilt-resistant. The flowers are fully double with an attractive crest-like center, of good substance and fine depth of petal. Pkt., 20c.

ANNUALS IN THE GARDEN

By H. Stuart Ortloff, L. A.

Includes many interesting suggestions for the use of these popular plants in the landscape scheme, by themselves and in combination with perennials, in the rock garden, in the border, for cutting, to follow bulbs, in window boxes, etc. It contains full instructions for growing annuals, sowing seed, transplanting and care in the garden. It also includes summer-flowering bulbs and biennials. It is illustrated with a frontispiece in color, four photographs and seventeen interesting landscape plans with planting lists for using these popular flowers in the home-garden scheme. \$1.25.



Early Royal Asters

An early, large-blooming type of Aster with elegant rounded double flowers carried on very long stems. The plant branches near the ground, which insures long flower-stems for cutting.

458 FINEST MIXED COLORS. $\frac{1}{8}$ oz., 30c; pkt., 10c.

Wilt-Resistant Asters

Wilt-resistant Asters will successfully solve your past difficulty in growing these beautiful fall flowers. Many gardeners have had to abandon all attempt to grow Asters because of wilt. No practical wilt control has yet been discovered. The following highly resistant strains have been developed from plants which through several years of production under severe wilt conditions, have survived untouched. The resultant seed now makes possible perfect fall displays of this popular Annual.

Wilt-Resistant Early Royal Asters

460 AZURE BLUE. $\frac{1}{8}$ oz., 50c; pkt., 15c.

461 DEEP ROSE. $\frac{1}{8}$ oz., 50c; pkt., 15c.

462 PEACH BLOSSOM. $\frac{1}{8}$ oz., 50c; pkt., 15c.

463 PURPLE. $\frac{1}{8}$ oz., 50c; pkt., 15c.

464 WHITE. $\frac{1}{8}$ oz., 50c; pkt., 15c.

465 FINEST MIXED. $\frac{1}{8}$ oz., 40c; pkt., 15c.

Wilt-Resistant Crego Asters

466 CATTLEYA. $\frac{1}{8}$ oz., 50c; pkt., 15c.

467 CRIMSON. $\frac{1}{8}$ oz., 50c; pkt., 15c.

468 DEEP ROSE. $\frac{1}{8}$ oz., 50c; pkt., 15c.

469 PEACH BLOSSOM. $\frac{1}{8}$ oz., 50c; pkt., 15c.

470 PINK. $\frac{1}{8}$ oz., 50c; pkt., 15c.

471 PURPLE. $\frac{1}{8}$ oz., 50c; pkt., 15c.

472 WHITE. $\frac{1}{8}$ oz., 50c; pkt., 15c.

473 FINEST MIXED. $\frac{1}{8}$ oz., 40c; pkt., 15c.

Wilt-Resistant Ball's White

474 BALL'S WHITE. A pure white Aster of branching habit and a great favorite as a cut flower. $1/16$ oz., 35c; pkt., 15c.

Perennial Asters. See page 44.



Brachycome—Swan River Daisy.

Balsam - Lady's Slipper

An old-fashioned flower which is generally popular in all gardens. It bears flowers of various shades, white, pink, red, yellow, purple, etc., some of which are beautifully striped and spotted. Hardy annual.

475 DOUBLE MIXED. $\frac{1}{4}$ oz., 25c; pkt., 10c.
BALSAM PEAR OR APPLE. See page 52.

BACHELOR'S BUTTON. See Centaurea.

Bartonia

Blazing Star or Gold Star

476 AUREA. A free-blooming and showy hardy annual with large yellow flowers. The foliage is gray and thistle-like, and is exceedingly brilliant in the sunshine. Thrives in a sunny situation even in poor soil. Should be sown where intended to bloom as it does not transplant well. Height, 18 inches. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

Begonia

Everblooming Bedding Varieties

The small, bright flowers are borne in great profusion from summer to autumn. Spring seedlings bloom in summer while summer seedlings make fine house plants for the winter.

477 SEMPERFLORENS, SALMON QUEEN. Very attractive new variety with large, salmon-colored blossoms and dark foliage. 5 pkts., \$1.00; pkt., 25c.

478 GRACILIS LUMINOSA. Fiery, dark scarlet flowers and satiny brown foliage. 5 pkts., \$1.00; pkt., 25c.

BLACK-EYED SUSAN (Thunbergia). See page 52.

Brachycome Swan River Daisy

479 IBERIDIFOLIA. Mixed. One of the daintiest and most charming little annual flowers imaginable and easy to grow in any soil. The flowers are borne on graceful stems well above the delicate, finely laciniate foliage. They are ideal for low beds and borders, as the plants grow to a height of only 8 to 10 inches. $\frac{1}{8}$ oz., 25c; pkt., 10c.

COREOPSIS (Perennial Calliopsis). See page 45.

CALIFORNIA POPPY. See Eschscholtzia, page 32.

CAMPANULA (Canterbury Bells). See page 45.

Canna - Indian Shot

Cannas can be successfully grown from seed if planted early. Pour boiling hot water over the seeds; soak for 24 hours. Plant in sand $\frac{1}{4}$ to $\frac{1}{2}$ inch deep. The seed will germinate in 2 to 4 weeks.

502 MIXTURE OF NEWEST NAMED VARIETIES. Pkt., 15c.



Calendula, Orange Shaggy.

Calendula - Pot Marigold

Easily raised, flower quickly from seed, and bloom without interruption until hard frost. Sow where they are wanted 2 to 3 seeds together, 12 inches apart, pull out the weakest, leave but 1 plant to grow; or start seed in hotbed in March or April and transplant outdoors in May. Frequently used for winter blooming under glass. Height 12 to 18 inches.

480 FILLED BEAUTY. For description see Novelty page 22. Pkt., 25c; special pkt., 75c.

481 APRICOT QUEEN. A flat-petalled variety of a bright apricot shade, deepening slightly towards the center. $\frac{1}{8}$ oz., 40c; pkt., 15c.

482 DOUBLE ART SHADES. Contains many tones and shades not previously obtainable—delicate apricots, beautiful picotees, orange shades, cream tones—every conceivable tint from pure white through cream and buff to yellow and deep orange. $\frac{1}{8}$ oz., 25c; pkt., 15c.

483 CHRYSANTHA or SUNSHINE. The large flowers are buttercup yellow with long, loosely arranged petals, which droop to give the rounded appearance found in our favorite Chrysanthemums. $\frac{1}{8}$ oz., 25c; pkt., 15c.

484 RADIO GOLDEN BEAM. An English variety of merit. The petals are beautifully quilled and fluted, which enhances the beauty of the golden yellow globular flowers. It harmonizes with almost any color. $\frac{1}{8}$ oz., 35c; pkt., 15c.

485 CAMPFIRE. (Sensation). Extremely large flowers; carried on long stout stems. The color is a brilliant orange with a scarlet sheen and a full yellow center. $\frac{1}{8}$ oz., 35c; pkt., 15c.

486 BALL'S ORANGE. Bright orange flowers, very large, with long stems, uniformly double. A favorite on the cut-flower market. $\frac{1}{8}$ oz., 35c; pkt., 15c.

487 ORANGE KING. Beautiful rich orange. Full double flowers, borne abundantly throughout the season. Oz., 25c; pkt., 10c.

488 ORANGE SHAGGY. The petals are long and deeply fringed or laciniate. Row after row of these long fringed petals overlap each other in a rather irregular fashion with the shaggy appearance of some Chrysanthemums. Blooms are of great grace and beauty, sharply contrasting with the rather formal appearance of varieties such as Orange King, etc. Color deep orange shading to slightly lighter orange in the center, giving the flower a delightful two-tone effect. Orange Shaggy has long stems and grows about 18 in. high. Pkt., 15c; special pkt., 50c.

489 LEMON QUEEN. Beautifully imbricated, very large double flowers. Petals light yellow, edges orange. Good for beds, borders and backgrounds. Height, 2 feet. Pkt., 10c; oz., 25c.

490 MIXED. All sorts, mixed. Oz., 25c; pkt., 10c.



Calliopsis, Dazzler.

Gay Calliopsis

One of the best annuals for beds or borders, producing attractive and graceful flowers on long stems which are most effective and artistic for decoration. They commence blooming early and continue until early fall. Seeds are usually sown outdoors where they are to bloom but can be sown inside and transplanted.

491 DAZZLER. Grows about 12 inches high, a little taller than Tom Thumb Beauty, but with better habit and blooms twice the size. These completely cover the plant and display a rich maroon-red center, with broad golden yellow border, a splendid sheet of color. Strongly recommended for summer bedding. Pkt., 15c.

492 THE SULTAN. A splendid new sort with flowers as large as those of Dazzler, but of a rich maroon-crimson. For bedding it is greatly in advance of its class. A trial will quickly prove its superiority for bedding purposes. Pkt., 15c.

493 DWARF VARIETIES. Mixed. Valuable for small mixed beds and borders. $\frac{1}{4}$ oz., 25c; pkt., 10c.

494 TALL MIXED. A splendid mixture comprising many varieties and a great range of colors. $\frac{1}{4}$ oz., 25c; pkt., 10c.

GARDEN MAINTENANCE

By H. Stuart Ortloff and H. B. Raymore

Every one who has a garden wants constantly to know how to care for it—how to prune, fertilize, spray and care for flowers, trees, shrubs and lawns. This is a book to answer all such questions. It is written for the home owner who already has a lawn and garden space; it does not presuppose a new garden or the complete rearrangement of existing plantings. Illustrated with photographs and drawings, frontispiece in color. \$2.50.



LAWNS

By F. F. Rockwell

You will find use for this information year after year, for it shows both how to start a lawn right and how to keep it smooth and velvety thereafter. Full of suggestions on laying out the lawn, grading, fertilizing, planting, care, weed and pest control, and remaking and repairing old lawns. 39 illustrations, 87 pages. \$1.25. Sent Postpaid.





Annual Canterbury Bells.

Candytuft for Mass Planting

Showy branching plant fine for edgings, bedding, massing, rockeries or for cutting. For early blooms, sow seed inside in March, making successive sowings outdoors any time from May to July. They thrive in rich soil and should be watered freely.

Hyacinth-Flowered Types

④495 **MINIATURE GEM.** A dainty, miniature hyacinth-flowered annual Candytuft about 3½ inches high, each plant producing 4- to 6-inch spikes of pure white flowers. A perfect miniature gem for the rock garden. **Pkt., 15c.**

496 **GIANT HYACINTH-FLOWERED or IMPROVED EMPRESS.** A wonderfully improved strain of the popular Empress Candytuft, forming much branched plants about 18 inches high. Make a very effective white bed or border and is invaluable for cutting. **½ oz., 25c; oz., 60c; pkt., 10c.**

Umbellata Types

Umbellata sorts grow about one foot high, with flowers in umbrella form.

497 **ROSE CARDINAL.** Bright carmine-rose. **½ oz., 25c; pkt., 10c.**

498 **FLESH-PINK.** Light pink. **½ oz., 25c; pkt., 10c.**

499 **CRIMSON.** Rich deep shade. **½ oz., 25c; pkt., 10c.**

500 **LAVENDER.** Delicate shade of rosy lavender. **½ oz., 25c; pkt., 10c.**

501 **FINEST MIXED.** Comprising all colors and shades. **½ oz., 25c; oz., 40c; pkt., 10c.**

PERENNIAL CANDYTUFT. See Iberis, page 48.

New Annual Canterbury Bells

Bring Spring to the Garden in September
Annual Canterbury Bells will flower in less than six months from seed, will grow two and one-half feet tall, producing six to eight flowering spikes to the plant.

503 **LIBERTY BELL.** An intense violet-blue. **Pkt., 15c.**

504 **ANGELUS BELL.** A beautiful art shade of deep rose. **Pkt., 15c.**

505 **MIXED COLORS.** **Pkt., 15c.**

CARNATION

506 **ENFANT DE NICE MIXTURE.** These are the result of a cross between Carnation Chabaud's Giant Improved and Carnation Perpetual. The plants are of robust, upright habit, with long, strong stalks bearing flowers 2½ to 3 inches in diameter. This strain is magnificent. About 90% of the plants come double. **Pkt., 15c; special pkt., 50c.**

507 **MARGUERITE.** A very early blooming sort which sometimes blooms in four months from sowing. Flowers are large, double, deeply fringed, very fragrant. Plants semi-dwarf, good for bedding and desirable for cutting. Annual. Finest mixed colors. **¼ oz., 25c; pkt., 10c.**

Celosia Cristata Nana - Cockscomb

A free bloomer growing best in rather light, not too rich soil. Sow seed indoors in early spring and plant outdoors in May, or sow seed outdoors in May.

508 **GLASGOW PRIZE.** Dwarf crimson. **Pkt., 10c.**

509 **DWARF GOLDEN YELLOW.** **Pkt., 10c.**

Celosia Childsi - Chinese Woolflower

510 **MIXTURE.** A distinct type, with large, roundish head and drooping spikelets of flowers which look like an immense ball of wool. All colors. Very showy. **Pkt., 10c.**

Centaurea

Sow outdoors in April, thin plants to stand ten inches apart, or you may sow seed from September to November for early bloom the following spring.

Centaurea Cyanus - Cornflower

511 **DOUBLE BLUE BOY.** **¼ oz., 25c; pkt., 10c.**

512 **DOUBLE PINKIE.** **¼ oz., 25c; pkt., 10c.**

513 **DOUBLE MIXED.** **¼ oz., 20c; oz., 50c; pkt., 10c.**

514 **JUBILEE GEM.** For description, see Novelty page 22. **Pkt., 25c.**

Centaurea Imperialis - Royal Sweet Sultan

515 **FINEST MIXED.** A wonderful annual for cutting, long-stemmed, exquisitely fringed and delightfully fragrant. 2 to 3 feet. May until frost. **¼ oz., 20c; pkt., 10c.**

White-Leaved Centaureas— Dusty Miller

516 **CANDIDISSIMA.** Silvery white leaves with elegantly cut margin. Fine for edging. Very showy. **½ oz., 35c; pkt., 10c.**

Chorizanthe - Turkish Rugging

517 **PALMERI.** A new subject for the border or rock garden. This easily grown annual forms a dense mat of statice-like flowers of a delicate pink which blends beautifully with the dull green foliage. In early fall the plant changes to a charming shade of autumn brown, which makes a bold showing at a time when Mother Nature is taking her last bow. It grows about 8 inches and has a spread of 12 to 18 inches. **Pkt., 15c.**



Cosmos, Double or Anemone-Flowered.

Chrysanthemum

518 **SINGLE GOLDEN GLORY.** Large perfectly formed flowers measuring 3 to 4 inches across, of deep canary-yellow, produced on 2-foot stems. The attractiveness of Golden Glory is further increased in that the central disc is the same color as the petals. A very free-flowering annual. Height, 3 feet. **Pkt., 10c; Special pkt., 35c.**



Chrysanthemum, Single Golden Glory.

519 **SINGLE MIXED.** A splendid mixture, including many fine colors. **Pkt., 10c.**

520 **DOUBLE MIXED.** Lovely double flowers; shades of yellow and white. **Pkt., 10c.**

Clarkia

This pretty and easily grown annual has been much improved in recent years, and the mixture offered below is now seen as cut flowers in most of the large cities of Europe. They do well either in sun or shade, growing 2 to 2½ feet high, with leafy racemes of double flowers, which all open in water when cut.

521 **ELEGANS DOUBLE MIXED.** **¼ oz., 25c; pkt., 10c.**

Cleome - Spider Plant

522 **PUNGENS.** A showy garden annual producing curious heads of flowers of bright rose; easy cultivation, blooming until late. Height, 4-5 ft. **¼ oz., 30c; pkt., 10c.**

Coleus - Flame Nettle

A fine colored, tender perennial foliage plant for house or garden. Sow indoors in March.

523 **FINEST MIXED COLORS.** 3 pkts., 50c; pkt., 20c.

COLUMBINE. See Aquilegia, perennial, page 44.

Cosmos for Early Autumn Color

Graceful autumn flowers, fine for cutting and extremely showy in the garden. Very easily grown. They do best in rather poor soil.

524 ORANGE FLARE. Now at last we may grow the lovely orange-colored Cosmos and be assured of having flowers before frost. In most parts of the country this brilliant hued flower is practically unknown because of its late flowering habit. In Orange Flare we offer an early flowering strain which may be enjoyed by all. Pkt., 15c; special pkt., 50c.

Dwarf Early Flowering Types

525 WHITE. $\frac{1}{4}$ oz., 25c; pkt., 10c. **527 PINK.** $\frac{1}{4}$ oz., 25c; pkt., 10c.

526 CRIMSON. $\frac{1}{4}$ oz., 25c; pkt., 10c. **528 MIXED.** $\frac{1}{4}$ oz., 20c; pkt., 10c.

Tall Late Mammoth Flowering

529 GIANT WHITE. $\frac{1}{4}$ oz., 25c; pkt., 10c.

530 GIANT CRIMSON. $\frac{1}{4}$ oz., 25c; pkt., 10c.

531 PINK LADY LENOX. A beautiful shade of shell-pink, early blooming and very large flowers. $\frac{1}{4}$ oz., 25c; pkt., 10c.

532 GIANT MIXED. Comprises all shades. $\frac{1}{4}$ oz., 20c; pkt., 10c.

Double or Anemone-Flowered

533 PINK BEAUTY. $\frac{1}{4}$ oz., 50c; pkt., 10c.

534 CRIMSON KING. $\frac{1}{4}$ oz., 50c; pkt., 10c.

535 WHITE QUEEN. $\frac{1}{4}$ oz., 50c; pkt., 10c.

536 SUPERB MIXED. $\frac{1}{4}$ oz., 40c; pkt., 10c.



Dianthus, Single, Japan Pinks.

541 CACTUS FLOWERED. Collected from named varieties. Pkt., 20c; 3 pkts., 50c.

542 DOUBLE FLOWERED. Collected from named varieties. Pkt., 20c; 3 pkts., 50c.

543 ZULU STRAIN. For description see Novelty page 22. Pkt., 35c.

FOR DAHLIA ROOTS. (See Summer Flowering bulbs, pages 55 and 56).

Dianthus - Annual Garden Pinks

Every garden should include some of the pinks because they are so easily grown and make such a wonderful display with their bright colored flowers. The plants are covered with sweet scented flowers all during the summer. Grows about one foot high.

544 LACINIATUS SPLENDENS. A free flowering, easily grown annual. The flowers are very large, over 2 inches across, in a brilliant shade of crimson, with a large boldly contrasting glistening white eye. Pkt., 15c.

545 SWEET WIVELSFIELD. This remarkable hybrid is quite distinct in method of flowering and height of growth from the Annual Sweet William. It has a great variety of color and a very long season of bloom. It is an annual and requires the same culture as Asters, Stocks and Snapdragons. Sown in a hotbed in February and March, and then into the open ground early in May, it will bloom from June until frost. If sown outdoors in April, it will bloom in August. Pkt., 15c.

546 HEDDEWIGI (Single Japan Pink). A splendid mixture of single flowers of brilliant shades, brilliantly marked. Plants dwarf and very free flowering. $\frac{1}{4}$ oz., 25c; pkt., 10c.

547 HEDDEWIGI, FL. PL. (Double Japan Pink). Very double, with deep fringed petals. Colors vary from white to rose, lilac, carmine, crimson, scarlet, purple, brown and almost black, spotted and striped. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

For Perennial varieties, see page 47.

Cynoglossum - Chinese Forget-Me-Not

537 AMABILE, BLUE. An annual recently introduced from China; of the easiest culture, forming strong plants 18 to 24 inches high and producing through the summer months sprays of intense blue Forget-me-not flowers, delicately sweet scented. A splendid addition to the comparatively short list of real blue flowers. $\frac{1}{4}$ oz., 30c; pkt., 10c.

538 AMABILE PINK. $\frac{1}{8}$ oz., 40c; pkt., 15c.

CALIFORNIA POPPY. See Eschscholtzia, page 32.

CARDINAL CLIMBER. See Vines, page 52.

Grow Dahlias from Seed

While usually grown from roots and cuttings, fine flowers can be produced in one season from seed, if it is sown early indoors and the plants set out when the ground is warm.

539 ADVANCE. Special strain of large flowered varieties. Pkt., 40c.

540 UNWIN'S DWARF HYBRIDS **MIXED.** For description see Novelty page 23. Pkt., 25c; special pkt., 75c.

541 GOLDEN WEST. Bright buttercup-yellow flowers. Pkt., 15c.

542 SALMON BEAUTY. A large flowering African Daisy of a pleasing true salmon shade, a welcome color addition to this popular flower group. $\frac{1}{8}$ oz., 40c; pkt., 10c.

543 AURANTIACA. Golden orange, with dark center. $\frac{1}{8}$ oz., 25c; pkt., 10c.

544 MIXED COLORS. Varying in colors of white, yellow, salmon and orange. $\frac{1}{8}$ oz., 35c; pkt., 10c.

545 Daisies

BLUE-EYED AFRICAN DAISY. See Arctotis, page 26.

ENGLISH DAISY. See Bellis Perennis. Perennial page 45.

GOLDEN AFRICAN DAISY. Dimorphotheca. See page 31.

SHASTA DAISY. See Chrysanthemum. Perennial page 45.

MARGUERITE DAISY. See Anthemis. Perennial page 43.

MICHAELMAS DAISY. See Perennial Asters, page 44.

TRANSVAAL DAISY. See Gerbera. Perennial page 47.

DIGITALIS. See Perennial page 46.

DELPHINIUM, ANNUAL. See Larkspur, page 33.

DELPHINIUM, PERENNIAL. See page 46.



Dimorphotheca—African Daisy.

Didiscus - Blue Lace Flower

548 COERULEUS. Superb for cut flowers. The long slender stems terminate in flat clusters of delicate blue flowers not unlike Queen Anne's Lace. $\frac{1}{8}$ oz., 30c; pkt., 10c.

Dimorphotheca

New African Golden Daisies

Most of us know the African Daisies, sometimes called the Star of the Veldt, and have admired their bright blossoms which appear in daisy-like form 2 to 3 inches across. A showy effect is obtained by using mixed colors of African Daisies, and the dark shades of Bedding Petunias, sowing the seed broadcast or setting out the plants informally, giving the appearance of being broadcast. Delights in a sunny situation.

549 CAENULACEA LEMON QUEEN.

This is a dwarf and uniform type, forming very compact plants, with flowers of a deep chrome yellow. It may be sown outdoors about the second week in April, but the best results are obtained by sowing inside in March. Plant out in May, giving a situation exposed to full sun if possible. Pkt., 15c.

550 ECKLONIS. Forms a strong compact plant with star-shaped flowers. Color pure white, with a deep blue disc. Excellent for cutting. Height 12 to 18 inches. Pkt., 15c.

551 GOLDEN WEST. Bright buttercup-yellow flowers. Pkt., 15c.

552 SALMON BEAUTY. A large flowering African Daisy of a pleasing true salmon shade, a welcome color addition to this popular flower group. $\frac{1}{8}$ oz., 40c; pkt., 10c.

553 AURANTIACA. Golden orange, with dark center. $\frac{1}{8}$ oz., 25c; pkt., 10c.

554 MIXED COLORS. Varying in colors of white, yellow, salmon and orange. $\frac{1}{8}$ oz., 35c; pkt., 10c.



Eschscholtzia—California Poppies.



Godetia, Sybil Sherwood.

Eschscholtzia (CALIFORNIA POPPY)

Easily grown from seed sown outdoors where they are to grow as they cannot be transplanted. They succeed everywhere, are always in bloom, brighten the garden from June until frost. Autumn sowing outdoors gives you early spring flowers.

555 DOUBLE GOLDEN GLORY. Golden Glory, with its glorious profusion of golden yellow flowers deepened at the center with orange, is indeed the brightest and showiest of all Eschscholtzias, the glory of the garden. Pkt., 15c.

556 SALMON BEAUTY. Beautiful double salmon, not variable. This novelty introduced for the first time last year, is salmon both inside and out. Very distinct. Pkt., 15c.

557 SCARLET BEAUTY. Deep scarlet. $\frac{1}{4}$ oz., 30c; pkt., 10c.

558 GOLDEN WEST. A very large, bright yellow sort with deep orange at the base of petals. Oz., 30c; pkt., 10c.

559 DOUBLE AND SEMI-DOUBLE VARIETIES. Mixed. $\frac{1}{4}$ oz., 35c; pkt., 10c.

560 SINGLE VARIETIES. Mixed. Oz., 30c; pkt., 10c.

Erysimum (FAIRY WALLFLOWER)

561 GOLDEN GEM. Plant literally covered with golden yellow flowers like a miniature yellow wallflower. From a sowing early in the year bushy little plants bloom in the succeeding autumn and again burst into full beauty in early spring. Dwarf and compact. Height 10 inches. Excellent for rockeries and small beds. Pkt., 15c.

Euphorbia

Strong-growing annuals, suitable for beds of tall-growing plants or mixed borders. The foliage is exceedingly ornamental. Sow outdoors in April.

562 HETEROPHYLLA. (Annual Poinsettia; Mexican Fire Plant). An annual, bushy plant, with highly ornamental leaves, which in summer and autumn become dark fiery scarlet. Height 2 to 3 feet. $\frac{1}{4}$ oz., 35c; pkt., 15c.

563 VARIEGATA (Snow-on-the-Mountain). Elegant, bushy plants, with broad green leaves, veined and marginated with white. Attractive foliage. Height 2 feet. $\frac{1}{4}$ oz., 25c; pkt., 10c.

EDELWEISS. See Leontopodium. Perennial, page 48.

FOR PERENNIAL FLOWER SEEDS see pages 43 to 51.

Feverfew - Matricaria

564 DOUBLE MIXED. Hardy annual, free-flowering. For bedding or pot culture. Showy double white and yellow flowers. 18 inches. Pkt., 10c.



Hunnemannia—Yellow Tulip Poppy.

Kochia Mexican Fire Bush

581 CHILDSI. A quick growing foliage or hedge plant which forms symmetrical globe-shaped plants about 3 feet high. The foliage is cypress-like in appearance, being finely cut, clear green color. Early in the fall it is covered with innumerable little flowers which cause the plant to take on a reddish tinge, hence the name of Fire Bush. Seed can be started early indoors and transplanted, or sown in open border and transplanted or thinned out. Annual. Oz., 35c; pkt., 10c.



Kochia—Mexican Fire Bush.

Four O'clock

(MARVEL OF PERU)

Old-fashioned flowers which are borne on erect, bushy plants, 2 to 3 feet high. Flowers are large, tube-shaped, opening in the afternoon and remaining open all night, and close again in the morning. Very desirable for borders and backgrounds for lower growing plants. Hardy annual.

565 MIXED. Comprises all shades. Pkt., 10c; oz., 25c.

FORGET-ME-NOT. See Myosotis, page 49.

FOXGLOVE. See Digitalis, page 46.

Gaillardia - Blanket Flower

566 INDIAN CHIEF. A superb variety. Dark mahogany-red flowers. Practically 100 per cent true. A marvel for continuous bloom; in flower from June until October. Pkt., 15c.

567 SINGLE SALMON PINK. A very pleasing shade. Pkt., 15c.

PERENNIAL GAILLARDIA. See page 47.

Geranium - Pelargonium

The heads of gorgeous flowers, of many shades of color, borne continuously, render this one of the most popular plants grown, either for pot culture in winter or for bedding out in summer. Tender perennial.

568 SINGLE LARGE FLOWERING. Mixed. Pkt., 15c.

Gilia - Queen Anne's Thimble

569 GILIA LINIFLORA, WHITE SWAN. For description see Novelty page 23.

Pkt., 15c; special pkt., 50c.

570 GILIA LINIFLORA, BUNCH OF LILAC. For description see Novelty page 23. Pkt., 15c; special pkt., 50c.

Globe Amaranth (GOMPHRENA)

An everlasting, with beautiful colored flowers resembling clover-heads. They retain their color and are lovely in winter bouquets.

571 MIXED COLORS. Pkt., 10c.

Godetia - Satin Flower

Attractive, hardy annuals, deserving more extensive cultivation, especially in the cooler parts of the country. The plants bloom profusely, and bear showy flowers, not unlike an Azalea, of satiny texture in many rich and varied colors. They do best in a rather poor soil. 1 foot.

572 SYBIL SHERWOOD. Bright salmon-pink, softened by an indefinite edging of white. Pkt., 10c; special pkt., 35c.

573 DWARF SINGLE EXQUISITE MIX-ED. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Gypsophila - Baby's Breath

Quick-growing, producing great numbers of small flowers in loose, graceful sprays. Valuable for cutting; fine for mixing with other flowers. Blooms quickly from seed and liberal sowings should be made every three weeks from April to July to cut continuously. For early spring flowers sow previous autumn.

574 ELEGANS ALBA. (True Covent Garden Strain). A grand improvement, flowers large and pure white. Oz., 25c; 4 ozs., 85c; pkt., 10c.

575 ELEGANS DELICATE PINK. Pretty blush-pink form of the above and equally valuable for cutting. Oz., 25c; pkt., 10c.

576 MURALIS. Dwarf hardy annual; rose-colored flowers, suitable for rock work. Height, 9 inches. $\frac{1}{4}$ oz., 25c; pkt., 10c.

FOR PERENNIAL GYPSOPHILA. See page 48.

Helichrysum - Strawflower

For Winter Bouquets

A Strawflower of the easiest culture; one of our best "Everlasting" flowers, the dried double bloom being very handsome in winter bouquets. 2 feet.

577 DOUBLE MIXED. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Heliotrope

578 LARGE FLOWERING HYBRIDS. A mammoth flowering variety having enormous quantities of flowers and trusses sometimes measuring 10 to 12 inches across. Very fragrant. Colors vary from pure white through the various shades of blue and purple to indigo. 2 pkts., 25c; pkt., 15c.

Hunnemannia

(Santa Barbara Poppy; Bush Eschscholtzia; Yellow Tulip Poppy).

579 SUNLITE. A double-flowered Poppy which is different. Its extra band of petals is produced on the outside, rather than the inside of the tulip-shaped flowers, giving the impression of being open even after the blossoms have closed for the night. Flowers bright canary-yellow, and the foliage of the 2-ft. bush is light grey-green. Like a sunny position in well-drained soil; flower freely in late summer. Pkt., 15c.

580 FUMARIAEFOLIA. Finely cut, glaucous foliage like the California Poppy. Produces large clear, brilliant yellow, tulip-shaped flowers on long stiff stems from July until frost. Sow seed early in May where plants are to bloom. Hardy annual. Height, 2 feet. $\frac{1}{4}$ oz., 25c; oz., 75c; pkt., 10c.

Lantana

Half-hardy greenhouse or bedding plants constantly in bloom, bearing miniature verbena-like heads of orange, white, and rose. Start seed indoors early. **582 DWARF BEDDING HYBRIDS.** Fine for bedding and pot culture. Will bloom freely all summer. $\frac{1}{4}$ oz., 30c; pkt., 10c.

Linaria "Baby Snapdragons"

596 FAIRY BOUQUET. Bright colored Snapdragon-like flowers. The plants are not more than 8 inches high, are very compact in habit, bearing flowers of many distinct colors such as rose, yellow, pink, lavender, carmine, red, violet, white and salmon. Excellent for bedding or for pots. Hardy annual. Pkt., 20c.

Linum - Flax

597 GRANDIFLORUM RUBRUM. (Scarlet Flax). One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers. Hardy annual. 1 foot. Pkt., 10c.

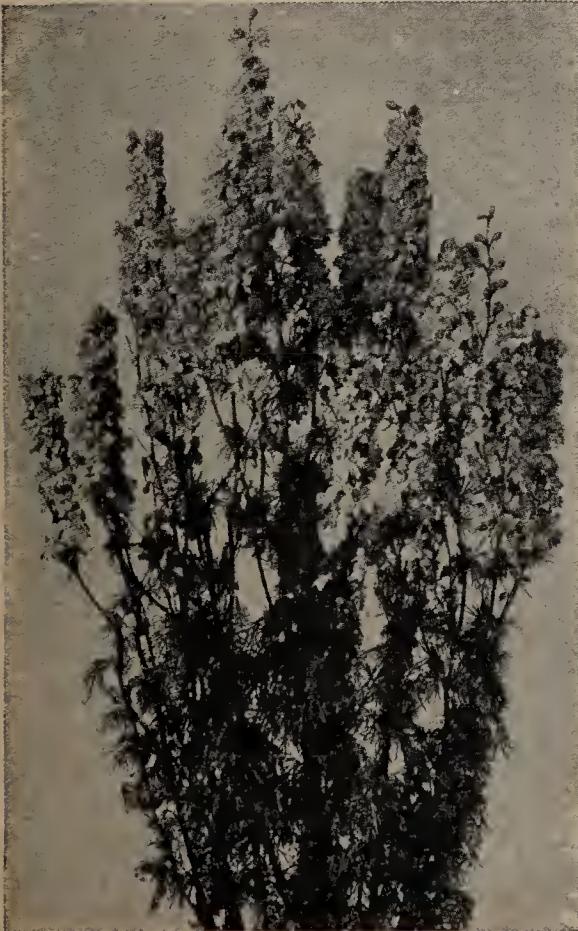
PERENNIAL FLAX. See page 49.

Lobelia

598 BLUE GOWN. An excellent new variety, with clear deep blue flowers without eye, and foliage of a bright medium green. Being extremely free-flowering and of a very fine compact habit, it will be found most effective for small beds and edgings. Pkt., 20c.

599 CRYSTAL PALACE COMPACTA. Rich deep blue; dark foliage. Height 4 to 6 inches. $\frac{1}{8}$ oz., 40c; pkt., 10c.

GARDEN POOLS (Large and Small). By Ramsay and Lawrence. Nothing else can add so much to your garden as a pool, even if it is only a transformed washtub in the tiniest garden space. How to have one is fully explained in this new book. Its text is so complete and its illustrations are so numerous and practical that you can easily find the type of pool that fits in your garden and learn all about designing, planting and caring for it. 41 illustrations, 122 pages. \$2.50.



Giant Imperial Larkspur.

Larkspur - Annual Delphinium

Tall showy plants that bloom freely during the summer months. They are very gay and especially useful for massed bedding and cutting. Blooms quickly from seed.

Giant Imperial Larkspur

A new type of Annual Larkspur, developed in California. These Larkspurs are ideal for cut flowers, as the flower stems, three to four feet long, branch from the base of the plant. (See illustration).

584 BLUE BELL. Medium blue, deeper than sky blue, yet much lighter than lilac, a color up to this time lacking in the Giant Imperial type.

585 BLUE SPIRE. Intense deep Oxford blue.

586 CARMINE KING. Deep carmine-rose.

587 DAINTINESS. Delicate lavender.

588 EXQUISITE PINK IMPROVED. Soft pink shaded salmon.

589 GLORIA. A rich tone of deep rose with no trace of carmine.

590 LILAC QUEEN. A rich lilac shading to lavender-blue, surpassing all other lilac varieties for color.

591 LILAC SPIRE. Beautiful blue color.

592 LOS ANGELES IMPROVED. Color brilliant rose on salmon.

593 PEACH BLOSSOM. A very delicate clear tone of light pink with no trace of salmon.

594 WHITE SPIRE. A dazzling pure white.

Any of the above: Pkt., 15c; special pkt., 35c.

595 IMPERIAL MIXTURE. A mixture of the above named varieties. $\frac{1}{4}$ oz., 25c; pkt., 10c.

PERENNIAL LARKSPUR. See Delphinium. Page 46.

COLLECTION OFFER

2595 GIANT IMPERIAL LARKSPURS. One packet each of Blue Spire, Carmine King, Daintiness, Exquisite Pink, and White Spire. Five 10c pkts., 35c.

Larkspur - Annual Delphinium

583 STOCK-FLOWERED ROSAMOND. For complete description see Novelty page 24. Pkt., 15c; special pkt., 50c.

Lupinus - Lupine

Quick-growing annuals, with woolly foliage and stems, having erect spikes of pea-shaped flowers. Excellent for cutting.

600 GIANT KING CHOICE MIXED. A new improved strain of annual Lupines. Giant Kings are 3 to 4 feet tall. King Lupines have the base branching habit, with 4 to 6 long spikes to a plant. Very large and handsome plants. Colors from dark blue, sky blue to heliotrope and white. Pkt., 15c; special pkt., 50c.

601 TEXAS BLUE BONNET. The flowers are of delightful blue, with distinct heart-shaped eye of deep rosy flesh. Charming bushy plants. Height 15 inches. 1 oz., 35c; pkt., 10c. See also Perennial varieties, page 49.

MARIGOLD. See next page 34.

Mesembryanthemum - Livingstone Daisy

628 CRINIFLORUM. This variety is absolutely hardy and one of the most easily grown annuals. The plants which are of slightly spreading habit, are literally covered with flowers, measuring about one inch, of the most delightful shades imaginable. There are pure white tinted and edged with rose, crimson, pink and buff, and self colors including primrose, golden, buff, apricot, crimson and pink. An ideal carpet or rockery plant and a gem for edging. Will succeed admirably in crevices of walks or old walls and thrives well in poor soil. Pkt., 25c.

CRYSTALLINUM. Commonly called Ice Plant. See Vines, page 52.

Myosotis - Forget-Me-Not

The following varieties of Myosotis are biennial, but are best treated as annuals, as they will bloom the first year from seed. For early spring flowers, sow seed in August. Protect the plants or winter them over in a cold frame like Pansies, or seed may be sown in a hotbed or cold frame in the spring and they will commence blooming in July. A cool, half-shady place is suitable.

629 ALPESTRIS, BLUE EYES. Very early, bright blue. compact habit. Pkt., 15c.

630 ALPESTRIS, ROSE. This is a lovely shade of bright rose, a rather unusual color. $\frac{1}{8}$ oz., 25c; pkt., 10c.

Mignonette - Reseda

Its sweet, delicate fragrance makes this a favorite annual in every garden. Sow in May in the borders or any sunny spot where plants are to remain. It is also grown in pots for winter and early spring flowering. Mignonette prefers a medium light, loamy soil, with only a moderate amount of moisture.

631 RED MONARCH. The flower spikes are broad and of perfect form, and the color is the most vivid red imaginable. Its perfume is exceptionally strong. Pkt., 20c.

632 LARGE FLOWERING SORTS. Special mixture of many shades, $\frac{1}{4}$ oz., 30c; pkt., 10c.



Lupine, Giant King, Choice Mixed.



Marigold, Royal Scot.

Marigolds for Color

A very popular old-fashioned garden annual which is remarkable for its brilliant display of yellow and orange flowers which are borne in greatest profusion from early summer till frost. The African varieties are tall, usually 2 to 3 feet high and well adapted for large beds, backgrounds or mixed borders. The French are more dwarf and can be used for borders and bedding. All varieties have finely cut, bright green foliage.

African Varieties

604 GUINEA GOLD. This is a very distinct type of Marigold of graceful pyramidal habit, growing 2 to 2½ feet high, and producing 30 to 40 flowers, 2 to 2½ inches across, of a brilliant shade of orange flushed with gold. Unlike the ordinary African Marigold, this new variety produces no single flowers, but practically 100 per cent semi-double. The characteristic Marigold odor, too, is much less pungent than in other sorts. $\frac{1}{8}$ oz., 25c; pkt., 10c.

602 DIXIE SUNSHINE. For description see Novelty page 24. Pkt., 20c; special pkt., 60c.

603 YELLOW SUPREME. For description see Novelty page 24. Pkt., 20c; special pkt., 60c.

605 GOLDEN BEAUTY. A new color in African Marigolds, being a soft, pure golden yellow. Golden Beauty is to be preferred to either the Lemon or Orange varieties hitherto available. It has semi-quilled petals and is intensely double. Height, 3 feet. Pkt., 15c.

606 YELLOW BEAUTY. A counterpart of Golden Beauty except that the color is a very beautiful clear light yellow. Very double. Height 3 feet. Pkt., 15c.

607 ORANGE PRINCE. Large, perfectly double, quilled flowers of a deep golden orange color. $\frac{1}{4}$ oz., 25c; pkt., 10c.

608 LEMON QUEEN. A lovely counterpart of Orange Prince of a soft lemon yellow color. $\frac{1}{4}$ oz., 25c; pkt., 10c.

609 AFRICAN DOUBLE MIXED. Comprises various shades and well adapted for large beds or mixed borders. $\frac{1}{4}$ oz., 20c; pkt., 10c.

The Queen Strains of Marigolds

Large Flowered Dwarf African Type

This new strain of African Marigolds will rapidly find favor for bedding. The plants are sturdy and when well grown form perfect pyramids, each carrying as many as 30 to 40 flowers fully open at the same time. The large blooms, measuring as much as 3 inches across, have flattish petals which take away from the plant that coarseness sometimes associated with African Marigolds. The following varieties will produce at least 90 per cent of double flowers. Height 18 inches.

610 ORANGE QUEEN. Pkt., 20c. **612 YELLOW QUEEN.** Pkt., 20c.

611 PRIMROSE QUEEN. Pkt., 20c. **613 GOLDEN QUEEN.** Pkt., 20c.

614 QUEEN STRAIN MIXED. A mixture of orange, primrose, yellow and golden shades of the dwarf African Marigold. Pkt., 15c; special pkt., 35c.

Marigold, Mexican

615 DWARF ORANGE. Hailing from Mexico, the original home of so many of our favorite garden flowers, this handsome new type grows 15 to 18 inches high and bears large double flowers of a bright orange. It is different in character from the old African Marigold, being more branching than the latter and extremely free flowering. Sown indoors in mid-March and planted out in May, it will give a fine display of bloom from July onwards and will be found an excellent subject for the mixed summer border. Pkt., 25c.

616 ROYAL SCOT. Modern as the crack Scottish Railway train, The Royal Scot, from which it borrowed its name, this Marigold is the most striking yet introduced. The large well formed double flowers are produced in abundance on plants from 24 to 30 inches in height. The color is a charming combination of mahogany and gold in symmetrical stripes which radiate from the center of the flower. We feel confident that Royal Scot will be welcomed by florists and home gardeners alike. Pkt., 15c.

Dwarf Double French Varieties

This class of Marigolds will form dense bushes not over 12 inches high and are unequalled for borders or low beds.

617 GOLDEN BALL. Very compact, large golden yellow flowers.

618 GOLDEN YELLOW. Bright golden yellow flowers, having a brown margin.

619 LEMON BALL. Very compact, flowers pale sulphur-yellow.

620 ROBERT BEIST. Dark maroon or mahogany-brown.

621 SPOTTED. Yellow, spotted brown.

622 STRIPED. Very double, golden yellow, each petal striped with rich mahogany-red.

Price: Any of the above, $\frac{1}{4}$ oz., 25c; pkt., 10c.

2618 COLLECTION. Contains one packet each of the above six dwarf double French Marigolds. 40c.

623 HARMONY. For description see Novelty page 24. Pkt., 20c; special pkt., 60c.

624 DWARF FRENCH DOUBLE MIXED. Comprising all shades. Very double. $\frac{1}{4}$ oz., 20c; pkt., 10c.

Tall Single French Marigolds

625 JOSEPHINE. This dainty French Marigold never fails to call forth the admiration of the most critical flower lovers. Its long stems make it ideal for cutting, and the velvety textured, golden brown flowers have a thread-like golden edge which gives them an unusual distinction. Considerable variation in flower markings must be expected, even from flowers growing on the same plant. Growth somewhat straggly; height 2 to 2½ feet. Best used in center of beds or for filler in perennial borders. Don't miss this one. Pkt., 10c.

Dwarf Single French Marigolds

626 FIRE CROSS. An immensely popular new French Marigold that has been the sensation of the English trials this past season. In habit it resembles the well-known Legion of Honor, so much in demand for edging, but the unusually large golden orange flowers have a broad frill of eight wavy rays, each of which bears a striking blotch of fiery crimson, giving a multiple cross effect in the center. Pkt., 10c.

627 LEGION OF HONOR. (Little Brownie). A single flowering Marigold, forming compact bushes 9 inches high. Begin flowering early, commencing in June, continuing until frost. The flowers are golden yellow, marked with a large spot of velvety crimson at the base of each petal. $\frac{1}{4}$ oz., 25c; pkt., 10c.

POT MARIGOLD. See Calendula. Page 29.

PIGMY MARIGOLD. See Tagetes. Page 39.



Marigold, Yellow Supreme.

Nasturtium

Common as the Nasturtiums undoubtedly are, few other flowers can rival them for brilliant coloring and fragrance. Very popular for decorating the dinner table and small vases. Three very distinct types exist. The tall or climbing varieties are valuable for quickly covering fences, screens and trellises. The Tom Thumb or dwarf Nasturtiums which cannot be excelled for bedding or edging, and then the new Double or Sweet Scented Nasturtiums. You will enjoy them. All varieties should be grown on poor soil. The flowers then appear well above the foliage but on rich land or on ground heavily fertilized they will have a tendency to produce more leaves than flowers. In the dry season watering in July and August will prolong the display for weeks.

New Double Sweet Scented Nasturtiums

633 GOLDEN GLEAM. The plant forms a vigorous, large bush which throws out short runners, averaging eighteen inches. The double flowers commence to come as soon as the plant nears complete development and at the time it is in full bloom, the entire plant, including the runners, is a blaze of color. The large, golden-yellow flowers average $2\frac{1}{2}$ to 3 inches across. They are borne on erect, stiff stems, 6 inches in length. Consequently, the flowers stand well above the foliage, an arrangement which adds immeasurably to the showy appearance of the plant. Very fragrant. Oz., 25c; pkt., 10c.

634 ORANGE GLEAM. For description see Novelty page 24. Pkt., 25c; special pkt., 75c.

635 DOUBLE SCARLET GLEAM. For complete description see Novelty page 24. $\frac{1}{4}$ oz., 50c; pkt., 20c.

636 DOUBLE GLEAM HYBRIDS. For complete description see Novelty page 24. $\frac{1}{4}$ oz., 40c; pkt., 20c.

Dwarf Double Nasturtiums

637 DWARF DOUBLE "GOLDEN GLOBE". This pretty novelty bears the same large double sweet scented golden-yellow flowers that have made the reputation of the Nasturtium Golden Gleam, but the habit of the plant is quite different. Instead of being a semi-runner it forms an almost perfect globe. Pkt., 20c.

638 DWARF DOUBLE GEM MIXTURE. For description see Novelty page 24. Pkt., 25c; special pkt., 75c.

Lilliput Nasturtium

639 SALMON QUEEN. For description see Novelty page 24. Pkt., 20c.

640 DWARF MIXED. Comprises all varieties and shades. Oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50; pkt., 10c.

641 TALL MIXED. Comprises all shades in splendid mixture. Oz., 15c; $\frac{1}{4}$ lb., 45c; lb., \$1.50; pkt., 10c.

Nemesia

642 STRUMOSA SUTTONI MIXED. Flowers are $\frac{1}{2}$ -inch across and are borne in great profusion. The color ranges from white through pale yellow and rose, to orange and crimson, with numerous intermediate shades and a great variety of throat markings. This South African plant is 1 foot high and blooms from June to September. Start seed indoors in March and set plants out in May. This is a bedding annual suited for shady locations and for pot culture. Pkt., 15c.

Nemophila - California Blue Bell

643 INSIGNIS BLUE. (Baby Blue Eyes). Splendid trailing annual, 6 inches high, fine for edging borders, or rock gardens. Cup-shaped, sky-blue flowers from late spring until frost. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Nicotiana

One of the easiest annuals to raise and one of the most effective. The blossoms in shape are not unlike a Petunia, but with a longer tube. The flowers open toward evening and emit a powerful perfume.

644 CRIMSON BEDDER. The flowers are a rich deep carmine. Plants are of dwarf, pyramidal habit, not over 15 to 18 inches in height; therefore very effective for mass bedding or for planting in small groups. Pkt., 15c.

645 ORANGE BLOSSOM (suaveolens). An elegant small flowered pure white species, delightfully sweet scented. Pkt., 15c.

646 AFFINIS HYBRIDS. Splendid mixture of blue, red and rose shades. Pkt., 10c.

Giant Pansies

This popular annual is so well known that it needs little description. Pansies are easily grown and bloom profusely for many months. Sow the seed indoors early in March or outdoors as early as the ground can be prepared. If sown during August, and wintered over in a cold frame, the plants will begin blooming very early the following spring and continue their showy display throughout the summer.

648 ENGELMANN'S GIANTS. Dark and light shades, huge flowers, very compact and early flowering. Pkt., 50c.

649 SWISS BLUE (Ullswater Blue). A solid blue flower with blue-black blotches. Pkt., 25c.

650 SWISS GIANTS. This strain of pansies is the most sensational novelty of many years. The seed we offer will produce flowers of gigantic size, perfectly round, and produce many new color combinations and shades previously unknown in pansies. Blooms early. Pkt., 25c.

651 OREGON GIANTS. A very fine mixture of giant types. Pkt., 25c.

652 TRIUMPH OF THE GIANTS. A rich mixture of bright colors with many delightful variations and markings. $\frac{1}{2}$ oz., \$1.00; pkt., 20c.

653 CHOICE BEDDING MIXED. Contains a complete range of colors. Blossoms slightly smaller than the giant types. $\frac{1}{8}$ oz., 30c; $\frac{1}{4}$ oz., 50c; pkt., 10c.

654 EARLY FLOWERING GIANT MIXED. This remarkable new race of Pansies flowers four to six weeks earlier than the other varieties. $\frac{1}{8}$ oz., 50c; pkt., 15c.

TUFTED PANSIES. See Viola, page 51.

Nigella - Love-in-a-Mist

647 MISS JEKYLL. Lovely variety giving an abundance of long-stemmed flowers which are of a clear cornflower-blue, prettily set in slender elegant foliage. One of our most attractive annuals. The plants are extremely hardy, and an autumn sowing produces the best specimens for flowering in the summer. Height, 18 inches. Hardy annual. Pkt., 10c.

Brilliant Annual Phlox

FLAME FLOWER

For a color effect in the garden there is nothing quite so brilliant and quite so lasting. Quickly grown from seed. They succeed best in a sunny open situation, preferring a light, rich loam. For early flowers, sow seed indoors or in the hotbed in March; or they may be sown in the open ground from late April until July. If faded flowers are removed, they will bloom until frost.

GRANDIFLORA VARIETIES—Height 1 Foot

696 ALBA. Pure white. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

697 BRILLIANT. Bright rose. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

698 COCCINEA. Fiery scarlet. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

699 PRIMROSE. Buff-yellow. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

700 VIOLET. With white eye. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

701 GRANDIFLORA MIXED. An extra choice strain of the best large flowered varieties, unexcelled in profusion and brilliancy of bloom and color. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

SPECIAL COLLECTION ANNUAL PHLOX

2701. Contains one packet each of the 5 separate varieties offered above. Value, 50c, for 35c.

Phlox Nana Compacta—Dwarf

A dwarf compact type, growing 6 to 8 inches tall. Free flowering. Excellent for dwarf beds and borders.

702 APRICOT. Yellow. Pkt., 15c; $\frac{1}{8}$ oz., 50c.

703 FIREBALL. Scarlet. Pkt., 15c; $\frac{1}{8}$ oz., 50c.

704 ISABELLINA. Primrose. Pkt., 15c; $\frac{1}{8}$ oz., 50c.

705 SNOWBALL. Pure white. Pkt., 15c; $\frac{1}{8}$ oz., 50c.

706 SUNRISE. Chamois-pink. Pkt., 15c; $\frac{1}{8}$ oz., 50c.

707 VIOLET. With white eye. Pkt., 15c; $\frac{1}{8}$ oz., 50c.

708 DWARF MIXED. Includes all of the above colors. Pkt., 15c; $\frac{1}{8}$ oz., 45c; $\frac{1}{4}$ oz., 80c.

709 CUSPIDATA MIXED (Star Phlox). Star-shaped flowers with laciniate petals. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

PERENNIAL PHLOX. See page 49.



PETUNIAS for All Purposes

A very useful and free-flowering annual, thriving on any soil and in the hottest weather. For a showy bed, or for porch or window boxes, few plants equal the Petunia in effectiveness. Sow the seed in pots or flats in the house or hotbed in February or March, or in the garden as soon as the soil is warm. Cover the seed but slightly as it is very fine.

Large Single Flowering Varieties

655 SINGLE FRINGED DAINTY LADY. Not for many years has an entirely new color in Petunias been introduced to the gardening public. Various new shades of rose, pink, blue and crimson may be expected from season to season, but we now present for your critical approval a distinct new hue in the Petunia color cycle—delicate golden yellow. The Dainty Lady, the remarkable Petunia introduction is, to the best of our knowledge, the first really yellow Petunia. It has been in the process of development for the past ten years, gradually but surely deepening the color, until this season it is ready for presentation. The plants are neat, compact, semi-dwarf and free flowering, bearing generous quantities of the medium sized, delicately fringed light golden yellow flowers throughout the summer. You and your friends will be thrilled with this brand new Petunia color. Plant it in a border with Verbena Lavender Glory, or Ageratum Blue Ball, for good contrast of color. **Pkt., 35c.**

656 SETTING SUN. The result of a cross between Petunia grandiflora fimbriata, Brilliant Rose, and a dwarf variety. It comes true from seed and forms compact bushes 12 inches high, covered with beautifully fringed blossoms of a brilliant rose-pink, measuring 3 inches across. It is admirably suited both for growing in pots and for borders. **Pkt., 35c.**

657 GOTTFRIED MICHAELIS. A worthy companion to the Dwarf fringed Petunia, "Setting Sun," introduced last year. The compact bushes of about 12 inches in height are covered with daintily fringed and waved medium-sized flowers about 3 inches in diameter, of a brilliant amaranth-red, deepening somewhat toward the center. This Petunia will be found of the greatest value for bedding purposes, as also for pots and window boxes. **Pkt., 35c.**

658 ELK'S PRIDE. Immense flowers of rich deep Elk's purple, with large lobes forming a five-pointed star. The velvety black veins add much beauty. **Pkt., 25c.**

659 DIENER'S PINK GLORY. Large, well-formed flowers of a most exquisite luminous pink, shaded with a contrasting white throat, and marked with creamy white veins. **Pkt., 35c.**

660 THEODOSIA. Large, fringed, rosy pink flowers with a clearly defined golden center. **Pkt., 35c.**

661 WHITE CLOUD. Pure white, very dwarf and compact. **Pkt., 25c.**

Large Single Flowering Mixtures

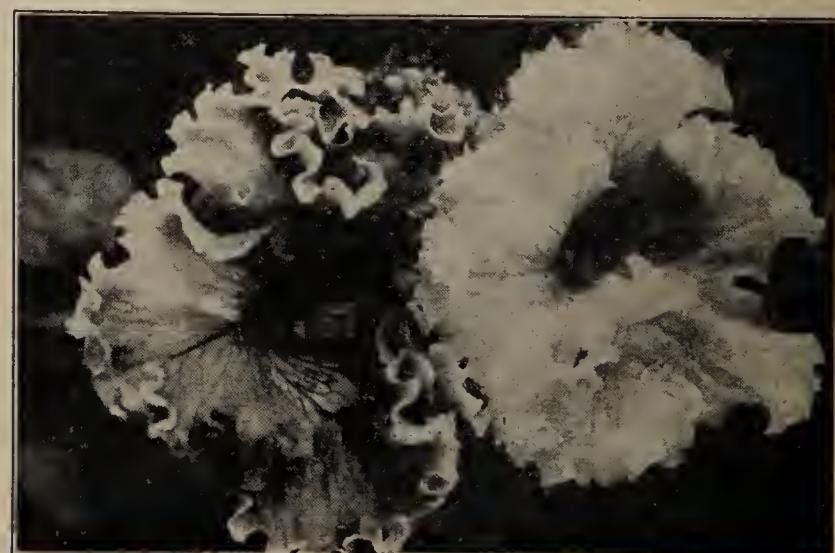
662 DWARF GIANTS (Ramona Strain). A dwarf, sturdy growing type, especially suited for pot culture. Flowers are beautifully ruffled and fringed with open well-marked throats. The mixture contains a good assortment of the most desirable dark and light shades which are well balanced. **Pkt., 50c.**

663 RUFFLED MONSTERS. A half dwarf type of erect and robust habit. The flowers are very large and ruffled, with open shallow throats. The colors are mostly the desirable red and dark shades, richly marked and veined. **Pkt., 35c.**

Double Flowering Varieties

664 DOUBLE FRINGED MIXED. An excellent, carefully hand-pollinated strain, yielding a large percentage of plants having double, finely fringed flowers. Embraces a splendid variety of colors and many beautiful combinations. Double Petunia seed is extremely costly and more care should be used in growing it. The small, slow-growing seedlings with crumpled foliage, which should be carefully saved, are the ones that produce the best double blooms; the remainder carry choice large single flowers. **Pkt., 50c.**

665 DOUBLE ROSY MORN. Medium sized flowers, semi-double with heavy petals folding back from the center, of a lovely rose color. **Pkt., 25c.**



Petunia Single Dwarf Bedding

Varieties Growing 8 to 12 inches high.
(*Petunia Hybrida Nana Erecta*.)

666 **ADMIRAL**. Rich violet-blue with waved flowers on compact plants.
Pkt., 20c.

667 **ALDERMAN**. Beautiful dark violet.
Pkt., 15c.

668 **COCKATOO**. The plants attain a height of 8-12 inches and are round and compact. The flowers are a velvety deep violet-purple, with irregular sized white spots and stars which give to the plant and bed an extraordinarily gay and vivid appearance.
Pkt., 15c.

669 **HEAVENLY BLUE**. Silvery light blue.
Pkt., 15c.

670 **PERIWINKLE**. A delightful shade of pastel-blue, resembling very much the perennial *Vinca* (Periwinkle), hence its name. The flowers are large, bold, five-pointed, and the plant is compact with a profusion of mid-blue flowers.
Pkt., 15c.

671 **ROSY MORN**. Dwarf extra select. Soft carmine-pink with white throat; makes a very dainty and at the same time effective border.
1/16 oz., 25c; 1/8 oz., 50c; 1/4 oz., 90c;
pkt., 15c.

672 **ROSE OF HEAVEN**. This would be our choice if the space available permitted the planting of only one variety of Petunia. It excels by its marvelous color—a brilliant crimson-rose of rare purity.
Pkt., 10c;
1/16 oz., 25c; 1/8 oz., 40c.

673 **SINGLE DWARF BEDDING MIXED**. Includes all the varieties listed above as well as many others.
Pkt., 10c; 1/8 oz., 25c.

Poppies for Delicate Tints

Sow seed in the fall or early spring where they are to bloom, as they are difficult to transplant. They flower quickly from seed and thrive best in a light loamy soil. Successive sowings should be made to provide continuous blooming.

Double Annual Poppies

710 **DAZZLER**. A bright orange-scarlet.
Pkt., 10c; 1/4 oz., 25c.

711 **SWEET BRIAR**. A delightful shade of deep rose-pink. The blossoms are double, resembling a very large double Begonia.
Pkt., 10c; 1/8 oz., 25c.

712 **DOUBLE SHIRLEY or BEGONIA FLOWERED MIXED**. Beautiful double satiny flowers in every conceivable color.
Pkt., 10c; 1/4 oz., 25c.

713 **PEONY FLOWERED MIXED**. Very large, double poppies with somewhat broader petals in many pleasing shades. Height, about 2 ft.
Pkt., 10c; 1/2 oz., 25c;
oz., 40c.

Single Annual Poppies

714 **AMERICAN LEGION**. A greatly improved English scarlet or Flanders Poppy, with very large flowers of dazzling orange-scarlet. 2 ft.
Pkt., 10c; 1/2 oz., 25c;
25c; oz., 40c.

715 **BLUE SHIRLEY**. Various blue shades.
Pkt., 10c; 1/4 oz., 25c.

716 **PICOTEE**. White, edged scarlet.
Pkt., 10c; 1/4 oz., 25c.

717 **TULIP**. One of the most brilliant of poppies, bearing bright scarlet tulip-shaped flowers with a dark spot at the base of each petal. It makes a gorgeous display in masses. Grows about one foot high.
Pkt., 10c; 1/2 oz., 25c; oz., 40c.

718 **WILD ROSE**. A Shirley Poppy with silky petals of a beautiful wild rose shade. Height, 18 inches.
Pkt., 10c; 1/4 oz., 25c; oz., 60c.

Petunia Single Bedding Varieties

Growing about 12 to 18 inches high.

674 **BLUE BEE**. Pure rich violet. The same shade of violet-blue as the popular *Viola Jersey Gem*. Pkt., 20c.

675 **FLAMING VELVET**. For description, see Novelty page 23.
Pkt., 25c.

676 **GENERAL DODDS**. Velvety dark red, nearly black; a scarce color among Petunias. Dwarf, compact bushes.
Pkt., 15c; 2 pkts., 25c.

677 **HOWARD'S STAR**. This grand Petunia has flowers 2 to 2 1/2 in. in diameter, of fine texture, with more or less veining. Ground color a crimson-maroon. In the center of each flower is a five-rayed star of light bluish pink or white. Height of plants, 1 1/2 to 2 ft.
Pkt., 10c; 1/8 oz., 45c.

678 **SUTTON'S BLUE BEDDER**. A very free-flowering single variety with rich colored flowers.
Pkt., 20c.

679 **CHOICE SINGLE MIXED**. A fair mixture of good coloring which bears moderately sized flowers and is extremely free-flowering.
Pkt., 10c; 1/4 oz., 25c; oz., 75c.

New Petunia Nana Compacta

A new strain of dwarf compact miniature Petunias, forming plants from 6 to 9 inches high, literally smothered with flowers. Plants about 8 inches wide.

680 **MARTHA WASHINGTON**. A new break in Petunias. Martha Washington is a ruffled or frilled Petunia. Its growth is about 9 inches high, and it forms a perfect ball effect, literally smothered with lovely frilled blooms about 3 inches in diameter. Its neat, compact habit makes it suitable for borders, bedding, pots or window boxes. This is a unique Novelty in Petunias.
Pkt., 20c;
3 pkts., 50c.

681 **PINK GEM**. Flowers clear pink measure 2 inches in diameter.
Pkt., 20c.

682 **ROSE GEM**. For description, see Novelty page 23.
Pkt., 25c.

683 **NANA COMPACTA MIXED**. A well-balanced range of fine colors.
Pkt., 15c.

Petunia Balcony or Large-Flowered

A splendid large and free-flowering type for window boxes, vases, hanging baskets, etc., the flowers average 3 inches across and make a very effective display over a long season.

684 **BLACK PRINCE**. (New). Deep velvety red.
Pkt., 20c.

685 **BLUE**. Velvety indigo-blue.
Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.

686 **COPPERY ROSE**. Enormous flowers with a dark throat deeply veined.
Pkt., 20c.

687 **CORNFLOWER BLUE**. (Blue Wonder). Rich, deep blue. Several shades lighter than Balcony Blue.
Pkt., 20c.

688 **CRIMSON**. Rich velvety crimson.
Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.

689 **DAMASK ROSE**. Large flowers, 3 to 4 inches in diameter. Color brilliant Tyrian rose shade, with a distinctly veined design of a deeper shade of spectrum-red.
Pkt., 20c.

690 **NETTED BLUE GEM**. The color is a steel blue, beautifully netted or veined with a deep violet.
Pkt., 20c.

691 **ROSE**. Brilliant rose-pink; very effective.
Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.

692 **STAR OF CALIFORNIA**. Beautiful flowers of velvety color, shaded crimson, with pure white blotches.
Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.

693 **VENOSA**. Malva-pink veined.
Pkt., 15c.

694 **WHITE**. The pure white form.
Pkt., 15c; 2 pkts., 25c; 1/16 oz., 50c.

695 **BALCONY MIXED**. A mixture of the above varieties.
Pkt., 15c;
2 pkts., 25c; 1/16 oz., 50c.

2695 COLLECTION OF BALCONY PETUNIAS. Contains 1 packet each: Blue, crimson, Venosa, rose and white. (Value 75c) for 50c.

719 **SINGLE SHIRLEY**. A beautiful sort which blooms a long season and bears large single flowers of flat but artistic shape. Most petals are of very silky texture with an intense sheen. Others plain, some crimped, some like tissue paper and others wavy. Colors range through shades of pink, rose, scarlet, carmine, and are generally edged with lighter shades.
Pkt., 10c; 1/2 oz., 25c; oz., 40c.

PERENNIAL POPPIES. See page 50.

Portulaca - Moss Rose

Portulacas enjoy the hottest, driest situation and will grow in almost any soil. Foliage is thick and succulent, like that of a *Sedum*, and the flowers resemble single and double roses. They bloom most freely throughout the summer and fall. Scatter a few seeds in your rockery or anywhere to fill up empty spaces. Sow seed in May when the ground is warm and it is well to mix the seed with dry sand or soil to ensure an even distribution.

Large-Flowering Single Varieties

720 **WHITE**.

722 **PINK**.

721 **YELLOW**.

723 **CRIMSON**.

Any of the above, pkt., 10c;

1/8 oz., 75c.

®724 **SINGLE MIXED**. Pkt., 10c;

1/4 oz., 20c.

Large-Flowering Double Varieties

®725 **MIXED COLORS**. Comprises a wide range of colors.
Pkt., 10c; 1/8 oz., 50c.



Annual Poppies.



Rudbeckia, Kelvedon Star.

Rudbeckia

728 KELVEDON STAR. A perfect long-stemmed flower for cutting, a sturdy and floriferous plant for bedding. The flowers vary both in form and in coloring, but all have dark brown centers, surrounded by a shining mahogany zone, deep golden petals. It is a rampant grower, reaching a height of 3 feet, and should be planted 18 inches apart, with 2 feet between rows. Will bloom from June until frost. Sowings should be made in February or March and the seedlings planted out during early May. **Pkt., 20c.**

Salvia - Scarlet Sage

One of the most useful and effective bedding plants, which produces immense masses of brilliant turkey-red flowers from early in the season, continuing in uninterrupted succession until frost. Blooms are borne on long spikes well above the foliage and continue in good condition a long time. Spikes are often 8 to 10 inches long and have 30 to 40 tube-like flowers born in a feathery manner on each side of the stem.

730 SPLENDENS. Tall growing sort with dark green foliage and bright fiery scarlet blooms. Annual. Height, 2 1/4 to 3 ft. **Pkt., 10c; 1/8 oz., 35c; 1/4 oz., 60c.**

731 AMERICA or GLOBE OF FIRE. This is the freest and most continuous blooming of all the Scarlet Sages, also the most uniform in habit of growth, which makes it particularly valuable for bedding or planting in lines. **Pkt., 15c; 2 pkts., 25c; 1/8 oz., 70c.**

732 FARINACEA (Blue Bedder). For description see Novelty page 25. **Pkts., 20c.**

Sanvitalia

(Creeping Miniature Zinnia)

733 PROCUMBENS Fl. Pl. 6-inch. Sanvitalia flowers are much like tiny Zinnias, golden yellow with very dark purple centers, some single and others double. The plants are prostrate and creep over the soil instead of growing upward. They start blooming in June and continue until frost. **Pkt., 10c.**

Salpiglossis - Painted Tongue

A very showy, half-hardy annual which is desirable both for bedding and border plants. Has richly colored funnel-shaped flowers of many shades including yellow, buff, crimson and scarlet and extends through to purple and almost black.

729 GRANDIFLORA MIXED. All colors. **Pkt., 10c; 1/8 oz., 25c.**

Ricinus

(CASTOR BEAN)

726 ZANZIBARIENSIS. Grows to immense size. Leaves sometimes measure 30 inches across and range in color from bright green to deep bronze. Choice mixed colors. **Pkt., 10c; oz., 25c; 4 ozs., 75c.**

727 MIXED SORTS. A desirable mixture of all varieties. **Pkt., 10c; oz., 20c; 4 ozs., 60c.**

Sweet Scabiosa

(Pincushion Flower, Mourning Bride)

One of the old-fashioned popular annuals which produce an abundance of many colored flowers which are excellent for cutting. The blossoms are borne on long stems, are fragrant, double and somewhat in the shape of a pincushion. It makes an effective garden plant for bedding or borders.

Seed can be sown in open border and thinned out from 1 to 1 1/2 ft. apart. Grows 2 to 2 1/2 ft. high.

Tall Double Flowering

734 BLUE COCKADE. This outstanding novelty is deeper than Azure Fairy in color, but the flowers are entirely devoid of any suggestion of rose. They are, in fact, the purest deep azure-blue that can be found in any annual. The formation of the flower is far ahead of existing varieties, and has so great a depth as to be almost conical in shape. An excellent cut flower, being strong stemmed and free-flowering; a good plant for general purposes. **Pkt., 15c; Special pkt., 35c.**

735 GIANT LOVELINESS. Loveliness is a glorious new color in annual Scabiosa. The blossoms range through varying tones of soft delicate salmon-rose. This is undoubtedly the most beautiful Scabiosa ever introduced and is the result of seven years of intensive selection. Unsurpassed as a cut flower, it has long stiff stems and a delightful fragrance, but its crowning beauty is its glorious salmon-rose color. **Pkt., 15c; 1/8 oz., 30c.**

736 PEACH BLOSSOM. A beautiful shade of peach-blossom-pink, large size and long stem. An excellent cut flower. **Pkt., 10c; 1/8 oz., 25c.**

737 SHASTA. A pure white of enormous size, the flowers measuring 3 1/2 inches across with extremely long stems. **Pkt., 10c; 1/8 oz., 25c.**

738 AZURE FAIRY. Clear lavender-blue. **Pkt., 10c; 1/4 oz., 25c.**

739 CRIMSON. Rich rosy crimson. **Pkt., 10c; 1/4 oz., 25c.**

740 YELLOW. **Pkt., 10c; 1/4 oz., 25c.**

741 KING OF THE BLACKS. **Pkt., 10c; 1/4 oz., 25c.**

742 TALL DOUBLE MIXED. A splendid sort for large beds or borders. Comprises many beautiful colors. Height, 2 1/2 ft. **Pkt., 10c; 1/4 oz., 25c; oz., 60c.**

Scabiosa Collection

2742 Contains 1 packet each of Azure Fairy, Peach Blossom, Crimson, Shasta, Loveliness and King of the Blacks. Value 65c, for 50c.

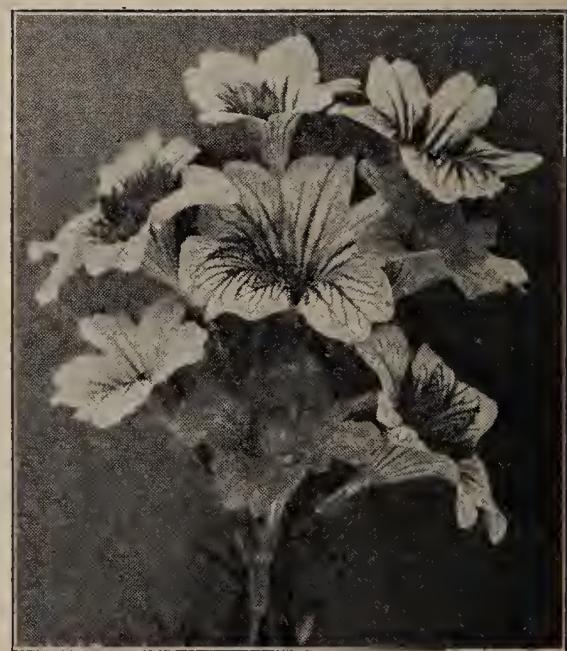
Dwarf Double Flowering

743 CORAL ROSE. Among all the dwarf double Scabiosas in cultivation there is none so neat and compact as this most floriferous new variety. Its color is deeper than that of the Tall Coral Gem, having a little more rose with just a tinge of salmon. The plant does not exceed 8 inches in height and comes very true from seed. **Pkt., 25c.**

PERENNIAL SCABIOSA. See pages 25 and 50.



Scabiosa.



Salpiglossis—Painted Tongue.



Stocks, Giant Imperial.

Sweet Pea, Fantasy Mixture

764 FANTASY MIXTURE. A unique and an entirely fresh class of Fantasy markings and colorings. Every flower in Fantasy Mixture is beautifully veined and watered. Orange, light and dark blue, all shades of pinks, chocolates, lavenders, maroons, mauves, and many other colors are represented. This new mixture makes an exceptionally attractive bouquet and being a very strong strain, will be welcomed for general garden work. Its value is further enhanced by the exceptionally strong and fragrant scent. Pkt., 20c.



Sweet Peas, Fantasy Mixture.

Schizanthus

(Butterfly Flower or Poor Man's Orchid)

An attractive hardy annual growing about 20 inches high, of neat, compact growth, and with finely cut foliage. The plant bears very attractive flowers ranging in colors from white to purple and are shaded from their edges to throats with darker colors. Flowers resemble somewhat the butterfly and are borne in clusters or spikes. Seed can be sown outdoors after danger of frost, or started earlier indoors and transplanted.

744 FINEST MIXED COLORS. Pkt., 10c; 1/16 oz., 50c.
SNAPDRAGON. See *Antirrhinum*, page 27.

Statice

The annual Statice is not only a beautiful flower in the border, but dries retaining its true colors, which are rare among everlasting. Indispensable in making winter bouquets.

745 RUSSIAN (Suworowii or Rat Tail). Flowers bright rose color. Height 30 inches. Pkt., 15c.

Stevia

746 SERRATA. Free-blooming tender perennial, bearing a multitude of fragrant, pure white flowers; suitable for summer bedding or winter blooming under glass. Excellent for cutting. Pkt., 15c.

Stocks - Cut-and-Come-Again NEW DOUBLE EXCELSIOR COLUMN "Non-Branching"

This new class of Stocks produces only one spike of enormous size with large flowers, 2 1/2 to 3 feet high. They can be planted close together on the greenhouse bench which makes them a profitable variety.

747 EXCELSIOR MIXED. Pkt., 35c.

Early Giant Imperial (Improved Bismarck)

One of the best Stocks for inside and outside planting. The plants grow in pyramidal form, covered with large double flowers.

748 GIANT IMPERIAL MIXED. Pkt., 15c.

Double Large Flowering Dwarf Stocks

Ten Weeks' Stocks

Sweet-scented, double flowers on strong spikes. Fine for the garden; 15 to 18 inches tall.

749 FINEST MIXED. All colors. Pkt., 10c; 1/8 oz., 40c; 1/4 oz., 75c.

Sunflower - Helianthus

(Hardy Annual)

Of easy culture, and the newer sorts are among the most ornamental and effective of all garden annuals. The single flowering sorts are indispensable for cutting. Bloom early and continue until frost.

750 CHRYSANTHEMUM - FLOW-ERED. Fine, perfectly double golden flowers, resembling Japanese Chrysanthemums; 6 to 10 inches in diameter. Plants grow to the height of 5 to 6 ft. Pkt., 10c; oz., 30c.

751 RED. The flowers are of a chestnut-red color, which appears as a ribbon around the center while the points of the petals are tipped yellow. Grows to a height of 6 feet. Pkt., 10c.

752 STELLA. Height, 3 to 4 feet. Flowers star-shaped, of brightest golden yellow, with dark centers. They are suitable for cutting. Pkt., 10c; 1/4 oz., 25c.



Schizanthus.

Sweet Peas

Sweet Peas are among the seeds to be sown very early in the spring. They should go into the ground as soon as the soil can be worked, and should be planted six inches deep, being covered at first with only two inches of soil, the trench being filled as the plants grow. One ounce sows 35 to 40 feet in a row. It is best to soak the seeds for several hours before they are planted. If this plan of planting early is followed, and Sweet Peas are kept mulched or else watered abundantly, they will generally give a fine crop of blooms.

Early Flowering Spencer Varieties

While these are especially adapted for forcing under glass for winter and early spring blooming, they are also valuable for outdoor culture, coming into bloom five or six weeks earlier than the regular Spencer type, and if the flowers are kept cut, they will continue to bloom for a long time.

753 ANNIE LAURIE. Pure rose-pink.

754 BLUE BONNET. Clear deep blue.

755 EXPOSITION PINK. Rich pink.

756 HOPE. Pure white.

757 LADY GAY. Soft shrimp-pink.

758 MAJESTIC ROSE. Rose-pink; long stems.

759 LAVANDA. Clear lavender.

760 RED BIRD. Bright crimson-red.

761 VALENCIA. Sunproof-orange; long stems.

Price any of the above: Pkt., 10c; 1/2 oz., 30c; oz., 50c; 1/4 lb., \$1.50.

762 SHIRLEY TEMPLE. See Novelty page 25. Pkt., 25c.

763 EARLY FLOWERING MIXED. A splendid mixture containing all colors. Pkt., 10c; oz., 35c; 1/4 lb., \$1.25.

Summer Flowering Spencer

765 AVALANCHE. Frilled white flowers.

766 BEAUTY. Blush-pink.

767 COMMANDER GODSALL. Deep violet-blue.

768 HEAVENLY BLUE. Delphinium-blue.

769 HUNTSMAN. A sunproof scarlet.

770 IVORY PICTURE. Ivory cream.

771 PINKIE. Clear deep pink.

772 PIRATE GOLD. Golden orange.

Price any of the above: Pkt., 10c; oz., 25c; 1/4 lb., 75c.

Eight Summer Flowering Sweet Peas

2772 Contains 1 packet each of the eight varieties offered above. Value, 80c, for 60c.

773 BEST SPENCER MIXED. Comprises the best varieties in all beautiful shades and colors and much superior to that offered indiscriminately as coming from growers. Pkt., 10c; oz., 15c; 1/4 lb., 50c; 1 lb., \$1.50.

HARDY SWEET PEAS. See *Lathyrus latifolius*, page 48.

Tagetes - Pigmy Marigold

774 SIGNATA PUMILA LITTLE GIANT. We are proud to offer Little Giant as the highest development yet attained of this pretty little Marigold, with slender fernlike foliage and an abundance of dainty, single, golden orange flowers on plants 4 to 6 inches high, with spread of 8 to 10 inches. Pkt., 15c.

775 GOLDEN GEM (Signata Pumila). A much improved dwarf compact variety, 6 to 8 inches high, throwing the flower well above the delicate, fernlike foliage, densely covered with bright yellow flowers, striped brown. Pkt., 10c; 1/8 oz., 30c; 1/4 oz., 50c.



Tithonia Speciosa.

the background of either the hardy or the annual border. Planted two feet apart in rows, it forms a striking hedge, and indeed a most effective screen. Prefers a poor dry soil. **Pkt., 20c.**

Torenia

A free-blooming annual, growing 10 to 12 inches tall. Makes a fine display in borders, pots, or window boxes.

777 FOURNIERI. Velvety blue with dark blue blotches and yellow throat. **Pkt., 15c; 1/16 oz., 50c.**

Ursinia

Emerging from their South African solitudes, the Ursinias have been rapidly making for themselves a place in horticulture. The dwarf plants are well furnished with finely cut foliage, above which rise brilliant orange colored daisy-like flowers, measuring over 2 inches in diameter, each with a deep purple or red zone around the center. The flowers are borne on long wiry stems, and make an excellent decoration in small vases. Many South African introductions close early in the afternoon, but the Ursinia will be found to remain open until nearly dark. When grown in the garden, it should be given a sunny position, and strong plants raised in pots from seed sown indoors during the latter part of March or early April and transferred to the open ground in May, will produce a very effective display. For flowering under glass, January is the best time for sowing.

778 ANETHOIDES. A brilliant orange daisylike flower, measuring over 2 inches in diameter, with a deep purple zone around the center. Height 1 foot. **Pkt., 15c.**

779 PULCHRA. About half the height of Ursinia Anethoides and with more delicately cut foliage. A very deep orange with the purple zone around the center. **Pkt., 25c.**

780 AURORA. This variety occupies an intermediate place between the two varieties offered above. Midway as regards height, with habits and foliage similar to Pulchra, but the distinctive charm lies in the broad zone of deep crimson-red which adorns the center of the bright orange flowers. **Pkt., 25c.**

"Surprise Garden" Flower Seed

This comprises a mixture of annuals, biennials and perennials and consists of sorts growing at moderate heights. No vines, trailers, or very tall growing plants are used in it. **805 Large pkt., 10c; oz., 25c; 1/4 lb., 75c; 1 lb., \$2.50.**

Viscaria

A very beautiful annual and easy to grow. Very free-flowering, producing throughout the entire summer its showy single flowers in red, white and blue shades. For bloom outdoors, seed may be sown in the open during March, April or May, or in September, for early flowering. Height 12 to 18 inches.

800 BLUE PEARL. For description, see Novelty page 25.

801 OCULATA COERULEA, BLUE BOUQUET. This is erect in growth and has the appearance of an elegant bouquet, thus distinguishing it from the rather spreading nature of its tribe. The flowers are larger than those of the ordinary Viscaria oculata coerulea, and of a more beautiful shade of blue. Hardy annual. Blooms from July until frost. Height 12 to 18 inches. **Pkt., 20c.**

802 TOM THUMB, FIRE KING. Rosy Crimson. Height, 1 ft. **Pkt., 15c.**

803 OCULATA, TOM THUMB MIXED. Special Mixture of red, white and blue shades. Height, 1 ft. **Pkt., 15c.**

Tithonia

The Golden Flower of the Incas or Mexican Sunflower

776 SPECIOSA. Tithonia is a rare plant coming from Mexico, the home of the Dahlia. History tells us that Tithonias were found growing in Peru as early as 1531, and were later found in Mexico. It is remarkable that a flower of such striking beauty should have been lost to cultivation. We now offer it as a novelty, which it is to the American gardener. The flowers are large and remind one of an immense single Zinnia. The color is a dazzling orange-scarlet. An annual of rapid growth and easy culture, throwing up from the roots many stout woody stems with large foliage. It forms a shrubby plant and flowers for a long period. The flowers are three to four inches across and can be cut with two to three-foot stems. They last a long time in water. From seed sown in the frame in March, plants begin to bloom in August; sown outdoors in May, plants bloom in September and continue in either case until frost. Tithonia is especially desirable for planting among shrubs, adding much color; or can be planted in

Verbena

NEW GIANT HYBRIDS

A magnificent new strain of Verbenas, of robust, compact habit and free-blooming. The trusses are immense, the individual florets measuring an inch in diameter. These Verbenas are fixed and come true from seed.

Seed can be started in the house and transplanted to the garden when the weather is warm, or sown in the open ground, thinned and transplanted. Verbenas from seed are much more thrifty and less liable to rust than from cuttings. Annual, 1 foot high.

781 SPECTRUM RED. An intense bright red having no eye. This variety is a brighter shade than any other Verbena yet introduced. The individual florets are 1 1/4 inches in diameter. **Pkt., 20c.**

782 CERISE QUEEN. A beautiful shade of salmon-cerise. Individual flowers very large. **Pkt., 20c.**

783 BEAUTY OF OXFORD HYBRID. A beautiful Giant Hybrid, raised from a cross between Verbena Luminosa and Beauty of Oxford. While following closely the color of Beauty of Oxford, it also inherits a touch of salmon-pink from Luminosa which gives a lovely softening effect. The color shades from clear rose-pink to rose-red, making this the brightest rose Verbena ever produced from seed. The individual florets measure over one inch in diameter and easily cover a silver half-dollar. The foliage is a dark cress-green. **Pkt., 20c.**

784 LAVENDER GLORY. A true lavender with a creamy white eye. Large florets; sweetly fragrant. **Pkt., 20c; 1/16 oz., 50c.**

785 ROYALE. This is a Verbena of enormous size, the individual florets measuring over an inch and a quarter in diameter. The color of this new Verbena is a rich, deep, royal blue with a large creamy yellow eye. **Pkt., 15c; 1/16 oz., 35c.**

786. ETNA. Large trusses of intense geranium-red with a small creamy yellow eye. The individual florets are over one inch in diameter. **Pkt., 15c; 1/8 oz., 45c.**

787 LUMINOSA. Flame-pink, shading to salmon. **Pkt., 15c; 1/8 oz., 45c.**

788 ROSE-CARDINAL. Large blooms. Deep rose with a white eye. **Pkt., 15c; 1/8 oz., 40c.**

789 SALMON-PINK. Beautiful salmon-pink flowers. **Pkt., 15c; 1/8 oz., 40c.**

790 WHITE. **Pkt., 15c; 1/8 oz., 45c.**

791 MAMMOTH MIXED. Comprising a wonderful range of charming colors in every conceivable shade. **Pkt., 10c; 1/8 oz., 30c; 1/4 oz., 50c.**

COLLECTION

New Giant Flowering Verbenas

2791 Contains one packet each of Royale, Etna, Salmon-Pink, and White. (Value 60c) for **45c.**

New Dwarf Compact Verbenas

This group is very neat and compact, forming a perfectly symmetrical plant about 6 to 10 inches high and 8 to 12 inches across. They are continuous bloomers, particularly adapted for bedding, borders and small gardens.

792 CAMEO PINK. Exceptionally dwarf. **Pkt., 20c.**

793 CARMINE BALL. Bright carmine. **Pkt., 20c.**

794 DANNEBROG. Intense scarlet, large white eye. **Pkt., 20c.**

795 DWARF COMPACT MIXED. A splendid mixture including the above varieties. **Pkt., 20c.**

Verbena Venosa - Hardy Garden Verbena

⑧796 DELICATE LILAC. Forms erect plant, 12 inches high with delicate lavender flowers produced in such masses as to completely hide the foliage. It is perfectly hardy and does well in beds, borders and may also be used in the rock garden. A perennial treated as an annual, blooming the first year from seed; if sown early will then bloom until frost. **Pkt., 20c.**

Venidium

797 FASTUOSUM HYBRIDS. For description see Novelty page 25. **Pkt., 25c.**

Vinca - Periwinkle

Valuable for bedding, seed should be sown early. Annual.

798 ROSE. **Pkt., 10c; 1/4 oz., 50c.**

799 MIXED. White and pink. **Pkt., 10c; 1/4 oz., 40c.**

VIOLA. See Perennial page 51.

Wallflower

804 EARLY WONDER MIXED. A recent novelty from Europe. If planted in early spring will be in full bloom by early summer. The flowers are equal to the perennial in size and every respect. It was developed by crossing the Perennial Double with the Early Annual and should thrive and bloom profusely in our warm and dry summers. **Pkt., 15c.**

Xeranthemum - Everlasting Flower

806 DOUBLE MIXED. Bright and pretty "Everlasting" with silvery foliage and silky flowers in pink, white and purple. **Pkt., 10c.**

Zinnias for Every Purpose

Few, if any, annuals have greater utility value than that of the Zinnia. Many distinct types have been developed, some bearing flowers of enormous size and others producing miniature double blooms in profusion. For early flowers sow seed indoors in March and transplant seedlings to the garden in early May, or, if preferred, sow seed in open ground in April. Space the large flowering and taller sorts from $1\frac{1}{2}$ to 2 feet apart; Pompon or Lilliput types 8 to 12 inches apart.

Giant Dahlia-Flowered Zinnias

The most outstanding of all Zinnias because of the wonderful range of rich colors. The flowers are immense, often measuring 5 to 6 inches across, and 3 to 4 inches in depth. They are borne profusely from late summer until frost. The bushes are 2 $\frac{1}{2}$ to 3 feet tall, of well-rounded form.

807 CANARY BIRD. A delicate shade of primrose; very large and holds its color well until out of bloom. **Pkt., 15c.**

808 CRIMSON MONARCH. By far the largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit. **Pkt., 15c.**

809 DREAM. A fine, deep lavender, turning to purple (Mallow Purple), a new, desirable shade in Zinnias. **Pkt., 15c.**

810 EXQUISITE. By far the most pleasing of our collection. Truly Dahlia flowered as regards form and size. Color, light rose with center a deep rose (Tyrian rose). **Pkt., 15c.**

811 GOLDEN DAWN. A beautiful golden yellow of immense size and good form. Very attractive. **Pkt., 15c.**

812 GOLDEN STATE. A very rich orange-yellow (cadmium). Yellow in the bud, turning to an attractive orange when in full bloom. **Pkt., 15c.**

813 ILLUMINATION. Similar to Exquisite, but a striking shade of deep rose. **Pkt., 15c.**

814 LEMON BEAUTY. This is next to Crimson Monarch in size and form. It may be described as a golden-yellow on brown. Decidedly a pastel shade and should be in every collection. **Pkt., 15c.**

815 METEOR. A rich, glowing deep red (spinel red) and the darkest of all the red shades. Fine form, with good depth of petal. Very large and more floriferous than other reds. **Pkt., 15c.**

816 OLD ROSE. This is adequately described by its name, as it is of the real old-rose shade; it is large and for charm and beauty we consider it ranks next to Exquisite. **Pkt., 15c.**



Dahlia-Flowered Zinnia.

817 ORIOLE. We consider this the most beautiful of its class. It is an immense orange and gold bicolor, changing slightly as it ages, but at all times worthy of the beautiful bird for which it is named. **Pkt., 15c.**

818 POLAR BEAR. A very large pure white; the best white yet seen in Zinnias. True Dahlia form. **Pkt., 15c.**

819 PURPLE PRINCE. A fine deep purple (Rhodanthe purple), large and well-formed. **Pkt., 15c.**

820 SCARLET FLAME. A large beautiful, bright scarlet, with a delightful blending of orange throughout the petal. This is not a bicolor. **Pkt., 15c.**

821 YOUTH. A beautiful soft rose, valuable for forcing and a good shipper, having better lasting qualities than any other variety offered. **Pkt., 15c.**

Any of the above Dahlia-Flowered Zinnias, $\frac{1}{8}$ oz., 35c; $\frac{1}{4}$ oz., 60c; oz., \$1.75

822 SPECIAL GOLD MEDAL MIXTURE. A well-blended mixture containing all the above novelties. **Pkt., 15c; $\frac{1}{8}$ oz., 25c; $\frac{1}{4}$ oz., 40c; oz., \$1.25.**

SPECIAL COLLECTIONS

Giant Dahlia-Flowered Zinnias

2822 Contains 1 packet each of the above 15 separate named varieties. (Value \$2.25) for \$1.50.

3822 Contains 1 packet each of Crimson Monarch, Dream, Illumination, Golden Dawn, Oriole. (Value 75c) for 50c.

California Giant Zinnias

The strain has the same robust habit as the Dahlia-Flowered. When the flowers are in full bloom, they reach enormous size, but their flatness gives them a most graceful appearance.

823 BRIGHTNESS. Bright, deep pink.

824 DAFFODIL. Canary-yellow.

825 GRENADIER. Bright dark red.

826 LAVENDER GEM. Deep lavender turning to purple.

827 LEMON QUEEN. Golden lemon.

828 MISS WILLMOTT. Soft pink.

829 ORANGE KING. Orange-scarlet.

830 PURITY. White.

831 SALMON QUEEN. Salmon-rose.

832 VIOLET QUEEN. Deep purple.

PRICE, any of the above: **Pkt., 10c; $\frac{1}{8}$ oz., 30c; $\frac{1}{4}$ oz., 50c; oz., \$1.50.**

833 FINEST MIXED. A mixture of the above varieties. **Pkt., 10c; $\frac{1}{8}$ oz., 20c; $\frac{1}{4}$ oz., 35c; oz., \$1.00.**



California Giant Zinnia.



Zinnia, Scabiosa-Flowered

Scabiosa Flowered Zinnia

846 MIXED. An entirely distinct and attractive strain of Zinnia of exquisite form, reminding one of Double-Crested Cosmos. The flowers are of medium size and each bears a collar of petals surmounted by a full double crest of the same tone of color. The plants are very free-flowering and range in color from pale rose to crimson and scarlet with orange, golden and purple shades. Being about 2½ feet in height, this strain makes a remarkably pleasing effect when used for bedding purposes. **Pkt., 15c; Special pkt., 50c.**

Zinnia Crown o' Gold

852 MIXED. This new Zinnia derives its name and distinction from the fact that each petal of the flower is overlaid with a deep golden-yellow at the base, while carrying out the individual flower color at the tip. The effect is a very pleasing two-tone color harmony. The color range comprises the more popular shades, including old rose, cream, yellow, carmine, and burnished red; the latter a new shade in Zinnias. **Pkt., 20c.**

853 DESERT GOLD. Several years ago we offered the fascinating new Zinnia, Crown o' Gold, in mixture. The yellow and gold shades in this mixture were immediately proclaimed the most attractive and sought after as separate colors. We are very happy now to offer these shades as Desert Gold, a variety containing the light and deep hues of gold, each petal overlaid at the base with a deeper golden yellow, giving a charming bicolor combination. Those who appreciate the finest in Zinnias will welcome Desert Gold. **Pkt., 25c.**

849 PUMILA DOUBLE MIXED. Height, 18 inches. **Pkt., 10c; ¼ oz., 25c.**

850 CURLLED AND CRESTED. Twisted and curled petals which make very effective flowers. **Pkt., 10c; ¼ oz., 25c.**

Early Wonder - A New Dwarf Race

Blooms very early and grows 12 to 15 inches tall. Medium sized flowers but borne on long stems, starting from the ground, with no laterals and few leaves. Very fine for cutting.

851 FIERY SALMON. Cerise-pink. **Pkt., 15c; ¼ oz., 60c; ½ oz., \$1.00.**



Tom Thumb Zinnias

855 TOM THUMB MIXTURE. Tom Thumb is without exception the dwarfest Zinnia known. The plants are rounded and compact, 4 to 6 inches high, literally covered with well-formed flowers of the Lilliput type. The color range includes red, orange, yellow, pink, rose, and other pastel shades. During the hot dry summer months this is the ideal border plant and is also well adapted for window box and pot work. **Pkt., 20c.**

854 FANTASY MIXED. New Zinnias are always welcomed by home growers and florists alike. While the giant-flowered varieties are still popular, the trend of late years has been toward the smaller flowered, more graceful strains. This new Fantasy Mixture meets this demand in all details. The rounded flowers are composed of a mass of shaggy ray-like petals which give a delicate and refined appearance to the medium-sized double flowers, large enough to satisfy the desire for mass of color, yet small enough to lend themselves gracefully to flower arrangement. The color range includes the brightest shades of reds and orange, as well as the popular pastel pinks and cream. **Pkt., 20c; Special pkt., 50c.**

847 MEXICANA, GYPSY GIRL. Orange and maroon, 9 inches in height. Chocolate-maroon flowers with a golden yellow band. **Pkt., 20c.**

848 MEXICANA HYBRIDS. Single and semi-double flowers somewhat like those of the French Marigold, in shades of yellow, orange, crimson and brown. Height, 18 inches. **Pkt., 10c; ¼ oz., 35c.**



Zinnia, Lilliput

Dwarf Zinnias for Beds and Borders**Zinnia, Lilliput**

This type of Zinnia forms a bush about 12 to 15 inches high and is covered with small, very double flowers in profusion. Excellent for cutting.

834 CANARY YELLOW.

835 CRIMSON GEM.

836 FLESH.

837 GOLDEN GEM.

838 LILAC GEM.

839 PURPLE GEM.

840 ROSEBUD.

841 SALMON-ROSE.

842 SCARLET GEM. (Red Riding Hood).

843 VALENCIA. Burnt orange.

844 WHITE GEM.

PRICE, any of the above Lilliput Zinnias: **Pkt., 10c; ¼ oz., 25c; ½ oz., 40c; oz., \$1.20.**

845 FINEST MIXED. A mixture of the above colors. **½ oz., 35c; oz., \$1.00; pkt., 10c.**



Mexican Zinnias

Our Special Offer of Lilliput Zinnias

2845 Contains a packet each of Canary-Yellow, Scarlet Gem, Salmon-Rose, Purple and White Gem. (Value 50c) for 35c.

**THE BOOK OF BULBS**
By F. F. Rockwell

Will help you grow bulbs successfully for spring, summer, fall and winter flowering, inside and outside your home. The information in this book tells, and its pictures show how to grow 70 different bulbous plants including tulips, daffodils, hyacinths, lilies, gladiolus, dahlias, peonies, irises, begonias, canna, bloodroots and dozens of others. Recommended as the most complete and newest guide to bulb growing. 187 illustrations, 264 pages. **\$2.00.**



Seeds of Hardy Perennial Flowers and Rock Garden Plants

There can be no greater joy than the planting of your own Perennial or Rock Garden, and certainly nothing more fascinating than actually growing from seed the plants and varieties desired. Perennials are those plants that go on living and increasing for a number of years, the stems dying down each season and coming again from the roots each spring. Most varieties are easily raised from seed sown during the late spring and early summer in frames or seed beds and transplanted to their permanent quarters in late summer or early autumn. If the seed be planted in August, they should be wintered over in the cold frame and transplanted to the border or rockery the following spring.

We recommend sowing perennial seeds in the spring. Seed germinates better, seedlings have an opportunity to develop into sturdy plants by fall, which permits them to winter over more successfully. The majority of these perennials bloom the second year from seed. Although some, like *Coreopsis* and *Gaillardia*, if sown early, bloom the first year. Perennials should be placed in clumps of three or five and left undisturbed for several years.

All varieties marked with a ® throughout the list are especially suitable for the rockery.

Achillea - Milfoil or Yarrow

856 **PTARMICA, THE PEARL.** A free blooming hardy perennial, bearing a profusion of small, double, white flowers on plants 2 feet tall, during July and August. Easily grown from seed, flowering the first season, if sown early. **Pkt., 15c; 1/16 oz., 50c.**

Aconitum - Monkshood

Bold spikes of hood-shaped flowers, valuable for cutting; very effective in flower borders and shrubberies, thriving anywhere. Hardy perennial.

857 **NAPELLUS.** 2½ feet. July, August. Fine, rich blue flowers. **Pkt., 10c; 1/8 oz., 45c; 1/4 oz., 75c.**

Adonis - Pheasant's Eye

®858 **VERNALIS** (Spring Adonis). A very useful hardy perennial for the rock garden or border. Should be planted in a warm corner among *Arabis*, *Aubrietias*, *Crocuses* and *Hepaticas*. Grows 8 to 12 inches tall, bearing single, yellow, buttercup-like flowers during late March and April. Will grow in sun or half shade. Seed germinates slowly. **Pkt., 10c; 1/16 oz., 35c.**

Agrostemma - Mullein Pink

859 **CORONARIA.** Silvery foliage and bright crimson flowers; free-flowering hardy perennial of easy culture; blooms the first season; fine for cutting; 2½ to 3 feet. June to August. **Pkt., 10c.**

AMPELOPSIS VEITCHI (Boston Ivy). See page 52.

Alyssum - Rock Madwort

®860 **ARGENTEUM** (Silvery Madwort). A very compact dwarf plant. Flowers yellow in dense clusters from June to August. Leaves small and white beneath. Thrives in a sunny situation in well drained soil. Height 12 to 15 inches. **Pkt., 15c.**
 ®861 **MONTANUM** Trailing habit. Silvery leaves and fragrant yellow flowers. Height 4 inches. **Pkt., 20c.**

®862 **SAXATILE COMPACTUM** (Basket of Gold). Showy, bright yellow flowers, hardy perennials; excellent for rock work; 1 foot. **Pkt., 10c; 1/4 oz., 25c.**

®863 **SAXATILE COMPACTUM, SILVER QUEEN.** Broad masses of pale lemon flowers in early spring. Useful in the border as well as in the dry wall or rock garden. **Pkt., 20c; 3 pkts., 50c.**

ANNUAL SWEET ALYSSUM. See page 26.

Anchusa

864 **ITALICA "FELTHAM PRIDE."** Upright habit, having flowers of the brightest blue. **Pkt., 25c.**

®865 **MYOSOTIDIFLORA.** A Russian species, bearing in April a profusion of pretty pale blue, forget-me-not-like flowers. Height 1 foot. **Pkt., 25c.**

Anthemis - Hardy Marguerite

866 **KELWAYI.** A most satisfactory hardy perennial, bearing all summer daisy-like, golden yellow blossoms; excellent for cutting. 2 feet. **Pkt., 10c; 1/8 oz., 25c.**

®867 **MONTANA.** Silvery tufted foliage with white flowers. April to July. Height 9 inches. **Pkt., 15c.**



Columbine, Dobbie's Imperial Hybrids.

Anemone - Windflower

868 **ST. BRIGID.** A very pleasing perennial, producing large, Irish poppy flowers; few plants compare with them in beauty; fine for bouquets. **Pkt., 10c; 1/4 oz., 75c.**

⑧869 **PULSATILLA** (Pasque Flower). Grows from 9 to 12 inches high and produces violet or purple flowers during April and May. An interesting plant for the rockery or well-drained border. Plant in full sun, 6 to 8 inches apart. **Pkt., 15c.**

⑧870 **SYLVESTRIS.** Large white blossoms on nodding stems of about 12 inches, blooming freely in May and June. Lovelily cut flower. Fine for cool, moist corner of rock garden or border. **Pkt., 15c.**

Arabis - Rock Cress

⑧880 **ALPINA.** A hardy perennial and one of the earliest and prettiest spring flowers. The spreading tufts are covered with a sheet of pure white flowers as soon as the snow disappears. Unequalled for rockeries or edging; withstands the drought and is always neat; 6 inches. **Pkt., 10c; 1/4 oz., 25c; oz., 75c.**

⑧881 **GRANDIFLORA SUPERBA.** Similar in every way to the above but having improved habit with larger flowers. **Pkt., 15c.**

⑧882 **ROSEA.** Similar in habit to the above. The flowers are a delicate pale pink. A rare rock plant. **Pkt., 25c.**

Arenaria - Sandwort

These little Alpine plants require a well-drained, sandy soil, not too rich, and prefer a sunny location in the rock garden or rock wall. Easily raised from seed.

⑧883 **MONTANA.** Growing in close tufts about 4 inches high, profusely covered with small silvery white flowers quite early in May. **Pkt., 20c.**

Armeria - Sea Pink or Thrift

Attractive dwarf plants that are invaluable for the rock garden, thriving in sunny places and succeeding in any soil. Forms evergreen tufts of bright green foliage from which flowers appear in dense heads on stiff, wiry stems, from 3 to 12 inches high. May be easily raised from seed.

⑧884 **CEPHALOTES, BEE'S RUBY.** Brilliant pink with long stems. The finest Armeria for the border and for cutting. **Pkt., 15c.**

⑧885 **LAUCHEANA.** Bright rosy red, 3 to 6 inches, May to June. **Pkt., 15c.**

Aquilegia - Columbine

This graceful Hardy Perennial is an ideal plant for partially shaded borders. As a cut flower it is noted for its beauty of form and richness of color.

CULTURE. Columbines, especially the long-spurred hybrids, thrive in a light soil, loose and fibrous, provided by adding peat and well-decayed manure. When planted in partial shade, the flowers develop better, grow larger and last longer. Easily raised from seed.

876 DOBBIE'S IMPERIAL HYBRIDS.

These new long-spurred Columbines are unequalled for their range of colors and sturdiness. They have received a great deal of attention abroad and are considered in England to be one of the best mixtures offered today. **Pkt., 25c.**

877 MRS. SCOTT ELLIOTT'S STRAIN OF LONG-SPURRED HYBRIDS.

A renowned English strain, which enjoys a world's reputation for large size flowers with long spurs. The colors range from pure white through tones of pink, blue, yellow and red. **Pkt., 15c; 1/16 oz., 50c; 1/8 oz., 90c.**

871 EMPEROR. This new giant race is a selection from the very finest strains of long-spurred Columbines in England, and far surpasses them as ornamental plants for the border, through its greater height, which averages 4 to 5 feet. The flowers are exceptionally fine and possess a really good range of colors. **Pkt., 25c.**

872 CRIMSON STAR. The novelty we here offer bears flowers of brilliant dark crimson, which, being borne profusely on the plant forms a most attractive subject for the border. This shade is a welcome addition to the long-spurred class. The raiser claims that it will come reasonably true to color from seed. **Pkt., 25c.**

873 MRS. NICHOLLS. A much improved strain, developed by an English specialist. The flowers are of a very bold type, color a rich shade of blue. **Pkt., 25c.**

874 COERULEA. (Rocky Mountain Columbine). One of the most beautiful of our native American flowers. Sepals deep blue; petals white. Height, 1 to 2 feet. April to July. **Pkt., 15c.**

875 ROSE QUEEN. Long-spurred pink flowers with white center and yellow anthers. Height, 2 1/2 feet. **Pkt., 15c.**

878 SINGLE FLOWERING. All colors mixed. **Pkt., 10c; 1/4 oz., 25c.**

⑧879 **ALPINA.** (Blue Alpine Columbine). True dwarf species, growing 12 inches high. Blue with white. Blooms April, May. **Pkt., 15c.**

Aubrieta - False Wall Cress

Lovely dwarf growing perennial plant that should be enjoyed in more gardens. Their use is not confined to the rock garden but when massed on dry walls or along the edge of sunny borders with white Arabis and yellow Alyssum will give rich spreads of color. Moreover, they are easily raised from seed, blooming the second year. The plants should be well clipped over after flowering so that they will make a fine growth for next year's blossoming.

⑧891 **EYRI.** Large flowered dark violet-purple. Thrives in stony places or any garden soil. Full sun. Late April and May. **Pkt., 15c.**

⑧892 **GRAECA.** A compact large-flowered blue variety. Full sun. Mid-April to late May. **Pkt., 10c.**

⑧893 **LEICHTLINI.** Leaves grayish, usually evergreen. Color carmine-rose. Sun or half shade. Late April and May. **Pkt., 20c; 3 pkts., 50c.**

⑧894 **LARGE FLOWERING HYBRIDS.** Exceptionally fine strain, including a wide range of many unusual colors, which cannot be fixed and offered separately. **Pkt., 15c; 1/16 oz., 75c.**



Anemone Pulsatilla.

Aster - Michaelmas Daisy

General List of Asters on Page 28.

⑧886 **ALPINUS GOLIATH.** Indispensable for the rockery or edge of hardy borders; 6 to 10 inches high and bears showy bluish-purple flowers in May and June. Plant in full sun, 6 to 8 inches apart. **Pkt., 20c; 3 pkts., 50c.**

⑧887 **ALPINUS MIXED.** Similar in habit to the above. Large lavender, blue and white flowers. **Pkt., 15c; 1/8 oz., 65c.**

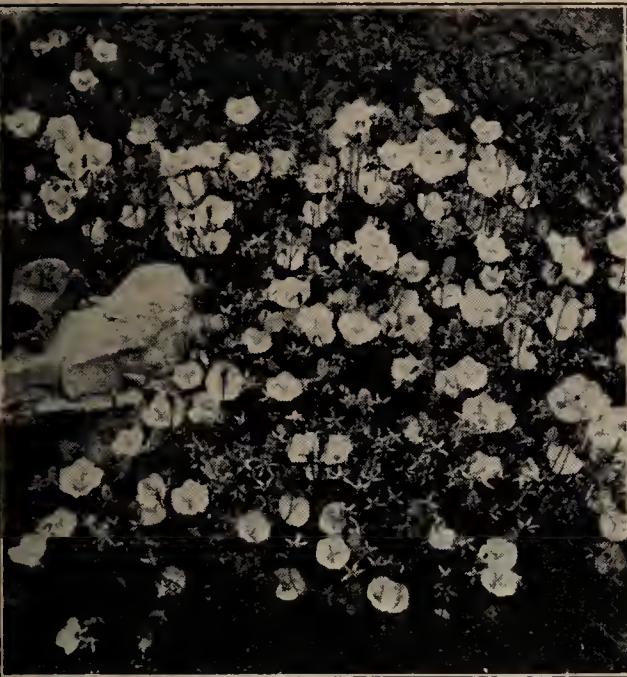
⑧888 **FARRERI.** The color is a soft tone of violet-mauve, with large golden orange disk. The flowers are from 2 to 3 inches across. Blooms in June and July. **Pkt., 20c; 3 pkts., 50c.**

⑧889 **SUBCOERULEUS.** (Florist's Delight). Forms a dense tuft of leaves from which arise many leafless stems 12 inches in height, bearing in June and July azure-blue daisylike flowers 3 inches in diameter, with golden centers. **Pkt., 20c.**

⑧890 **LARGE FLOWERING.** Mixed. Single fall flowering hardy Asters thriving in any good garden soil. If sown early they will flower the first season. **Pkt., 15c; 1/8 oz., 60c.**



Aster, Alpinus, Goliath.



Campanula Carpatica, Blue.



Bellis Perennis.



Cerastium Tomentosum.

Bellis Perennis - English Daisy

A well-known dwarf-growing plant which bears massive and very double aster-like flowers. It is very useful for borders or growing for cut flowers. Plants are about 6 inches high and bear in greatest profusion.

895 GIANT RED. Pkt., 15c; $\frac{1}{8}$ oz., 75c.

896 DOUBLE MIXED. Large, double flowers, various shades, pink, red, white and other colors. Pkt., 15c; $\frac{1}{8}$ oz., 60c.

Campanula

In this great family of plants are some of the loveliest and most enchanting of rock plants and alpines, as well as a great number of beautiful and useful plants for the open borders and for naturalizing in half-shaded wild gardens. Easily raised from seed and having the advantage of flowering late and giving blooms in the summer time when flowers in the rock garden or perennial border are scarce.

Campanula - Bellflower

The following Campanulas are all hardy perennials and will succeed in ordinary rich soil.

®897 CARPATICA, BLUE (Carpathian Harebell). Free-flowering hardy perennial plants, continuing in bloom the whole season; color clear blue. Good for edging and rock gardens. Will bloom the first season if sown early. Height, 6 inches. Pkt., 10c; $\frac{1}{8}$ oz., 30c; $\frac{1}{4}$ oz., 50c.

®898 CARPATICA ALBA. The white-flowered form of the above. Pkt., 10c; $\frac{1}{8}$ oz., 30c; $\frac{1}{4}$ oz., 50c.

899 PERSICIFOLIA, TELHAM BEAUTY (Peach Bells). Immense bell-shaped flowers of a pale china blue, silvery shading. Height 2 feet. Pkt., 25c.

900 PYRAMIDALIS, BLUE (Chimney Bellflower). Produces spikes 4 feet long covered with blue, star-shaped flowers during the entire summer. Pkt., 10c.

®901 ROTUNDIFOLIA OLYMPICA. It is an alpine and comes from the Olympic Mountains of the State of Washington. The flower is of a beautiful deep lavender-blue, about 1 inch across and the same in length, borne on a plant of compact habit about 8 inches in height. Blossoms freely through the summer and fall. Pkt., 25c.

Campanula Calycanthema

Cup-and-Saucer Canterbury Bells

Sow these hardy biennials in early summer and transplant in autumn for flowering the following year. Height, 2 $\frac{1}{2}$ feet.

902 BLUE. Pkt., 10c; $\frac{1}{8}$ oz., 35c.

903 PINK. Pkt., 10c; $\frac{1}{8}$ oz., 35c.

904 WHITE. Pkt., 10c; $\frac{1}{8}$ oz., 35c.

905 SPECIAL MIXTURES. Pkt., 10c; $\frac{1}{8}$ oz., 35c.

Canterbury Bells

906 DWARF BEDDING SINGLE MIXED.

A never-failing attraction, with their glorious display of giant flowers in various colors, and we are glad, after several years of careful selection to be able to present a new dwarf compact type only about 20 inches in height. Forming bushes over 3 feet in circumference, the plants are wonderfully floriferous, often bearing 100 to 150 flowers, and will make a splendid subject for spring bedding. The colors that have so far appeared are varying shades of blue, mauve and white, and doubtless others will come in course of time. These colors in mixture. Biennials. Pkt., 20c.

Hardy Border Carnations

907 GRENADE MIXED. Dwarf, compact plants with a great profusion of double flowers in various colors. Early flowering and invaluable for cutting. Will bloom first year if seed is sown early. 1 ft. Pkt., 15c; special pkt., 50c.

Centaurea

908 MONTANA (Perennial Cornflower). Hardy perennial variety, grows 2 feet high, bearing large violet-blue flowers from July to September. Pkt., 10c; $\frac{1}{8}$ oz., 25c.

Cerastium - Snow-in-Summer

These blanketing hardy perennial plants are suitable for growing over stones and rough banks, also used on rough places in the rock garden or for edging of borders.

®909 TOMENTOSUM. Narrow, silvery foliage with white flowers, suitable for planting in dry sunny places. 3 to 6 inches. June. Pkt., 10c; $\frac{1}{8}$ oz., 35c; $\frac{1}{4}$ oz., 55c.

Cheiranthus

Very pretty dwarf hardy biennial plants, usually handled as annuals, flowering freely throughout the summer from seed sown in spring; for early spring flowering, sow in late summer. Splendid for rockery.

®910 ALLIONI (Siberian Wallflower). About 12 inches high with heads of brilliant orange flowers. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

Chrysanthemum - New Types

®911 MAWI. An ideal plant for the border or rockery. Height about 1 foot. Flowers 2 inches across and of a rich pink color. Silvery foliage and perfectly hardy. Pkt., 20c.

912 CASCADE. A new race of Perennial Japanese Chrysanthemums, bearing large clusters of small single flowers in shades of scarlet, bronze, orange, yellow and white. Beautiful when grown in masses affording a splendid colorful garden effect long to be remembered. March and April sown seed in the open ground will bloom in September and October. An admirable greenhouse or potted plant, falling as it does in cascades of beautiful flowers. Pkt., 15c.

Chrysanthemum - Shasta Daisy

913 NEW GIANT DOUBLE WHITE. (Diener Strain). This strain includes an assortment of various types of double flowers ranging from the most fully double fringed petaled sorts through semi-doubles to a type which, though single, forms unusual and beautifully shaped flowers with laciniate, curled and quilled petals. The flowers are all large and carried on long wiry stems. Pkt., 40c.

914 THE PRINCE. A Shasta Daisy producing very large pure white flowers, 5 inches in diameter, born on long stiff stalks, 18 inches and more in length, of which the vigorous plant throws up a large number. Blooming takes place in about mid-season and it is no doubt the best variety for cutting yet produced. Pkt., 15c; $\frac{1}{8}$ oz., 35c.

915 ALASKA. A splendid hardy perennial variety with flowers rarely less than 5 inches across, of the purest glistening white, with broad overlapping petals, and borne on long strong stems; a beautiful cut flower, remaining in good condition a week or more. Pkt., 10c; $\frac{1}{8}$ oz., 25c.

Coreopsis - Tickseed

Will flower the first year if sown very early.

916 MAYFIELD GIANTS. Deep golden yellow. This variety will produce a tall and vigorous plant, having long and firm stems and large individual blossoms. Excellent for cutting. Blooms freely all summer. Pkt., 15c; $\frac{1}{8}$ oz., 25c.

917 LANCEOLATA GRANDIFLORA. Bright yellow Cosmos-shaped flowers. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

918 SUNBURST. This new double form is just as easy to grow as the single varieties offered above and the extra petalage adds a further charm to the flowers. Pkt., 20c.



Delphinium, Blackmore & Langdon's Strain.

CULTURAL DIRECTIONS. Delphiniums thrive in rich, deeply cultivated soil; however, any soil, even hot and sandy, if well watered and fertilized, will give excellent results.

If the flowering spikes are cut after blooming to within 8 to 10 inches from the soil, fertilized and watered, fresh growth will then be produced, which will give blossoms. Coal ashes strewn over the crown will protect the plants from slugs through the winter and spring, also forming a natural drainage of excess moisture from the crowns.

Digitalis - Foxglove

945 **SHIRLEY STRAIN.** The plants attain a height of 5 to 7 feet, with spikes 3 to 4 feet long carrying flowers of giant size, ranging in color from white to dark rose and handsomely blotched and spotted cream, maroon and chocolate. **Pkt., 15c; $\frac{1}{8}$ oz., 25c.**

946 **WHITE.** **Pkt., 10c; $\frac{1}{8}$ oz., 25c.**

947 **PURPLE.** **Pkt., 10c; $\frac{1}{8}$ oz., 25c.**

948 **ROSE.** **Pkt., 10c; $\frac{1}{8}$ oz., 25c.**

949 **MIXED.** **Pkt., 10c; $\frac{1}{4}$ oz., 40c.**

EDELWEISS. See Leontopodium, page 48.

Doronicum Pardalianches

950 **GOLDEN BUNCH.** An excellent perennial which produces a profusion of long-stemmed flowers in May and June. Doronicum Golden Bunch has innumerable flowers of a brilliant canary-yellow. It makes large bushes of about 24 to 32 inches high and is ideal for cut flowers and perennial borders. **Pkt., 50c.**

Delphinium - Hardy Perennial Larkspur

The Delphiniums, or Hardy Larkspur, is one of the most valuable of all herbaceous plants. It provides many of the light and dark shades of blue colors greatly in demand, but very scarce. Many delightful shades of lavender and mauve are also present in the newest strains, all of which will be found in the choice varieties offered below.

Named Varieties, English Delphiniums

A slight variation in colors must be expected in the flowers produced from seed, but a large per cent of the seedlings will come true. The others, too, will be of good type, and more than likely some new color combinations will be found among them.

919 **BLUE GOWN.** Perfect ultramarine-blue, semi-double with small black eye, shapely spike of open formation; plant free and graceful with good secondary spikes. Blooms early. Height, 5½ feet. **Pkt., 50c.**

920 **ICEBERG.** This is the first white Perennial Delphinium to be introduced, which comes true from seed. Grows 48 inches high. The long spikes are thickly covered with pure white blooms. This variety is particularly beautiful and forms an attractive contrast to the dark and pale varieties. **Pkt., 35c.**

921 **LADY GWENDOLYN.** Semi-double, deep sky blue, white eye. Vigorous and mildew-proof. Height, 5½ feet. **Medium.** **Pkt., 50c.**

922 **MILLICENT BLACKMORE.** Spike of perfect form, pips very large, blue and mauve, black center. Height, 5 feet, 6 inches. **Late.** **Pkt., 40c.**

923 **VIOLET ROBINSON.** Rich violet-blue, moderate-sized white eye, and remarkable for size of flowers, often 3 inches across. Blooms early. Height, 4½ feet. **Pkt., 40c.**

924 **ZEPHYR.** Deep sky-blue, semi-double. Mildew-proof. Midseason blooming. Height, 7 feet. **Pkt., 35c.**

Delphinium Mixtures of Famous English Specialists

925 **BLACKMORE & LANGDON'S STRAIN.** We take great pride in offering this unusually fine mixture which contains nearly all of the newest varieties developed by these famous English Delphinium specialists. Many of their varieties have earned gold medal awards in England. The seed we offer is saved from their best varieties, including their novelties and imported direct from them by us. **Pkt., 35c; $\frac{1}{16}$ oz., 90c; $\frac{1}{8}$ oz., \$1.60.**

926 **WREXHAM HYBRIDS, HOLLYHOCK STRAIN.** A fine mixture of all shades of blue, lavender and mauve. Large flowers well placed on long pyramidal spikes. Their sturdy appearance reminds one of the Hollyhock, hence the name. **Pkt., 35c; $\frac{1}{16}$ oz., \$1.00; $\frac{1}{8}$ oz., \$1.85.**

927 **CHOICE HYBRIDS.** Mixed. A choice mixture of all shades, ranging in color from pale lavender to indigo-blue. **Pkt., 10c; $\frac{1}{8}$ oz., 40c; $\frac{1}{4}$ oz., 75c.**

Loose Spray Delphiniums

(Excellent for Cutting)

928 **BELLADONNA** (Cliveden Beauty). This is the freest and most continuous blooming Hardy Larkspur. The clear turquoise-blue of its flowers is not equalled for delicacy and beauty. **Pkt., 15c; 2 pkts., 25c; $\frac{1}{8}$ oz., 60c; $\frac{1}{4}$ oz., \$1.00.**

929 **BLUE GROTTO.** Deep blue; bee royal purple, with a cream center. **Pkt., 20c.**

930 **BELLAMOSUM.** This is a rich, deep blue form of the popular light blue Belladonna, having the same free-blooming and other good qualities. **Pkt., 20c; 3 pkts., 50c; $\frac{1}{8}$ oz., 60c; $\frac{1}{4}$ oz., \$1.00.**

931 **CAMBRIDGE BLUE.** It is a rich clear blue, growing about 2 to 3 feet high. Excellent for cutting. **Pkt., 15c; $\frac{1}{8}$ oz., 60c.**

932 **CHINESE WHITE.** This variety grows 12 inches tall, bearing elegant graceful spikes set with large white blooms. Flowers freely from June until September. It is fine for beds, borders and cutting. **Pkt., 10c; $\frac{1}{4}$ oz., 40c.**

DELPHINIUM ANNUAL. See Larkspur, page 33.

PERENNIAL GARDENS

By H. S. Ortloff

Following the simple directions in this book insures a perennial garden crowded with bloom, in which the colors make a perfectly blended picture. First come plans, showing how to locate and lay out the garden; then clear directions for preparing the soil, fertilizing, planting, cultivating, transplanting and propagation. 18 illustrations, 90 pages. \$1.25.



Doronicum, Golden Bunch.



Dianthus deltoides—Maiden Pink.

Dianthus - Hardy Garden Pinks

Every garden should include some of the pinks because they are so easily grown and make such a wonderful display with their bright colored flowers. The plants are covered with sweet-scented flowers all during the summer. Grows about 1 foot high.

⑨33 ALLWOODI. Mixed. A splendid strain, being half carnation and half pink. 75 per cent come double. **Pkt., 35c.**

BARBATUS. See Sweet William, page 51.

⑨34 HIGHLAND QUEEN. The most brilliant perennial Dianthus in cultivation, bearing in profusion flowers of a lustrous scarlet-vermilion color, which captivates the beholder at first sight. It is extremely hardy, of vigorous growth, and ideal for bedding, borders and the rock garden, continuing in bloom, as it does, from end of May until frost. **Pkt., 25c.**

⑨35 HIGHLAND HYBRIDS. Tall strong-stemmed Pinks in a mixture of colors, beautifully marked and zoned of the same habits as Highland Queen. **Pkt., 25c.**

⑨36 PLUMARIUS (Pheasant's Eye Pink). A semi-double hardy variety, clove-scented. Flowers blush white, shaded with crimson and maroon. **Pkt., 10c; 1/4 oz., 25c.**

Dianthus Species

These well-known mountain plants are for the sunny border or sunny, exposed places in the rock garden or rock wall. They flower generally after the spring flowers are over and some are very fragrant. While having all the outward characteristics of high alpine plants, the varieties we list are as friendly and easily grown as *Arabis* or *Alyssum*. Hardy perennials.

CULTURE. Easily raised from seed, germinating quickly. Plant in ordinary good soil, which contains some lime and which should be well drained.

⑨37 CAESIUS (Cheddar Pink). Pleasing to the eye at all seasons with its tufts of grey, narrow leaves and rose-pink, fringed, spice-scented blossoms. Good for a south wall, or any dry, hot place on the rock garden. Will vary from 5 to 10 inches high. Late May to early July. **Pkt., 10c; 1/8 oz., 35c; 1/4 oz., 50c.**

⑨38 DELTOIDES (Maiden Pink). A trim sturdy dwarf plant. Deep pink, crimson-centered flowers borne in abundance. Foliage forms a dense carpet. Easily grown on the rockery. Requires sunny position. 6 to 9 inches high. May and June. **Pkt., 15c; 1/8 oz., 50c.**



Gaillardia, Torchlight.

DIANTHUS SPECIES—Continued.

⑨39 DELTOIDES, MAJOR STERN'S VARIETY. Flowers bright crimson, with dark foliage, free-flowering. **Pkt., 20c; 1/16 oz., 50c.**

⑨40 KNAFFI. A unique species, producing on slender stems clusters of small yellow blossoms. Place it high in the rock garden, as it loves a dry, sunny place. **Pkt., 25c.**

⑨41 LITTLE JOCK HYBRIDS. For description, see Novelty page 22. **Pkt., 35c.**

⑨42 ROSII. Cushions of silvery foliage covered in summer with unusually large rosy blossoms. **Pkt., 25c.**

⑨43 SUPERBUS LOVELINESS. For description, see Novelty page 22. **Pkt., 20c.**

⑨44 WINTERI. Striking new pinks, deliciously scented that are ideal for the rockery. Compact, glaucous foliage. Well-formed flowers in a grand color combination. Quite hardy and will bloom the first season. **Pkt., 25c.**

ANNUAL PINKS. See page 31.

Gaillardia - Blanket Flower

The Gaillardias are wonderful for cut flowers, blooming right through until frost, and adapt themselves to almost any kind of soil.

⑨51 SUNSET. A pure yellow perennial Gaillardia of good form. **Pkt., 20c.**

⑨52 "TORCHLIGHT." Few plants can rival the perennial Gaillardia for gorgeous effect in the border from mid-summer onwards, the main drawback being a somewhat loose untidy habit. In "Torchlight", however, the stems are much stronger and stiffer than in any variety hitherto produced, making the habit much more compact and they attain a length of 2 to 2½ feet. The flowers are golden-yellow with a rich maroon-red center and often measure as much as 5 inches across. Both for the border and for cutting, this new Gaillardia will be found of the greatest value. **Pkt., 25c.**

⑨53 MONARCH STRAIN. Mixed. For description, see Novelty page 23. **Pkt., 20c.**

⑨54 PORTOLA HYBRIDS. A superb new variety bearing flowers of immense size on long stems. The colors range through shades of bronze-red with golden tips; very robust. Hardy perennial. **Pkt., 15c.**

⑨55 GRANDIFLORA. Superb mixed hardy perennial. **Pkt., 10c; 1/4 oz., 25c.**

Gazania

⑨56 SPLENDENS. For description, see Novelty page 23. **Pkt., 20c.**



Gerbera—Transvaal Daisy.

Gentiana - Blue Gentian

Beautiful Alpine perennials admirably suited for the border and rock gardens.

CULTURE. Gentians are slow to establish themselves, requiring special care to grow them successfully. Should be grown in a rich moist loam containing a fair amount of well-decayed cattle manure. It is advisable in all cases to mix peat or leaf mold freely with the soil before planting. Top dress with well-rotted manure in the spring. The plants should be well supplied with moisture in dry weather. Gentians do not like to be disturbed once they are established.

⑨57 ACAULIS (Gentianella). Large blue, bell-shaped flowers marked inside with yellow, rising from rosettes of glossy leaves. Leave undisturbed. As seeds are often slow to germinate, it is advisable to soak them well before sowing. Height, 4 inches. March to May. Hardy perennial. **Pkt., 25c.**

Gerbera - Transvaal Daisy

⑨58 JAMESONI. Large daisy-like blooms on long stems in shades of yellow and red, attracting attention everywhere. Thrives well as a pot plant or in the greenhouse. May also be grown in the open, if provided with winter protection. Height, 18 inches. Half-hardy perennial. **Pkt., 40c.**

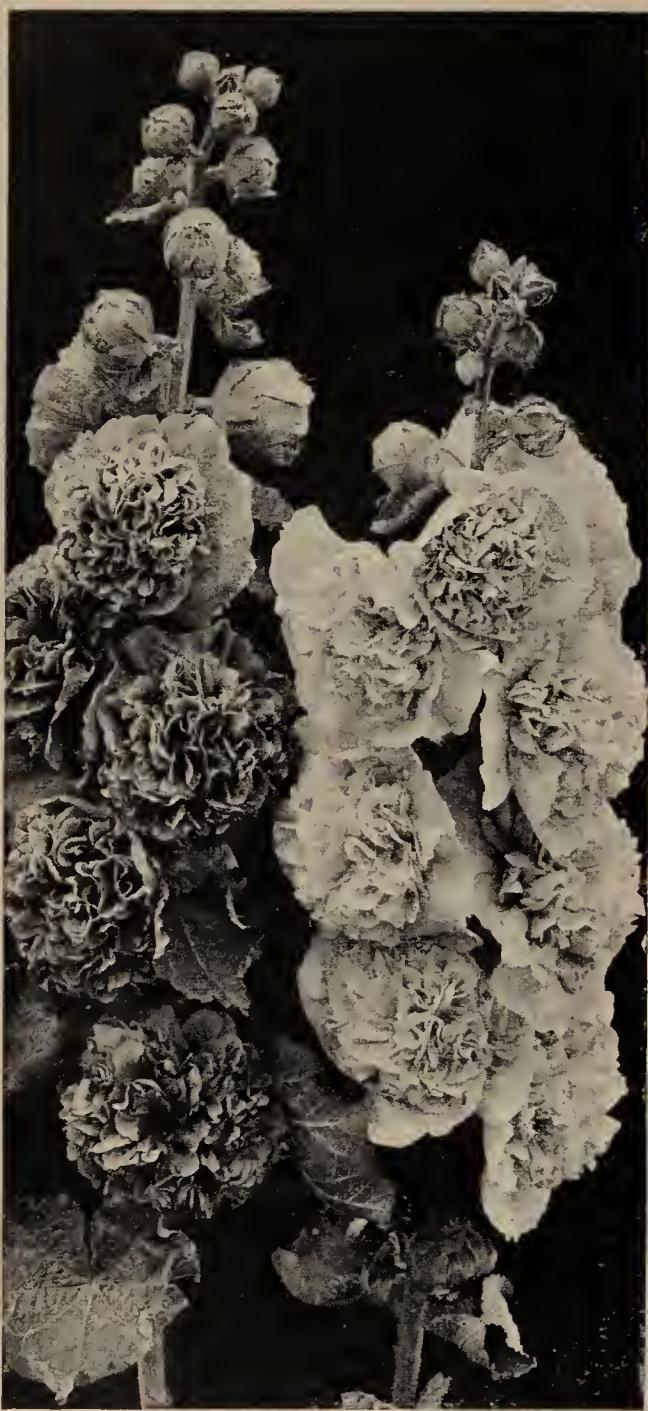
Geum - Avens

Geums have become indispensable border plants. The sorts named below bloom from early summer till late autumn, and the flowers, both for their purity of color and graceful poise, are much prized for cutting. Hardy perennial.

⑨59 DOUBLE, MRS. BRADSHAW. The orange-scarlet flowers are very large and full, comes quite true from seeds and blooms the first year. This is a great advance over any other Geum seedling. Height 18 inches. **Pkt., 10c; 1/16 oz., 35c.**

⑨60 DOUBLE LADY STRATHEDEN. Fine, rich golden-yellow flowers, which match in other respects the popular scarlet variety, Mrs. Bradshaw, and will become as general a favorite. Height, 18 inches. **Pkt., 15c; 1/16 oz., 50c.**

⑨61 GEUM, ORANGE QUEEN. This very fine new variety of a shade intermediate between that of Mrs. Bradshaw and Lady Stratheden, a bright orange-scarlet, has been in large demand during the past season. **Pkt., 15c; 1/16 oz., 50c.**



Double Hollyhocks.

Gypsophila - Baby's Breath

Pretty free-flowering plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers.

962 **PACIFICA**. This perennial Baby's Breath comes into flower after the *Paniculata* varieties have passed. Will bloom the first season from seed and is perfectly hardy. The plant reaches a height of 3½ feet, and it is a veritable cloud of numerous rose-colored flowers, which are excellent in bouquets for a filler. **Pkt., 20c.**

963 **PANICULATA**. Single. White flowers, fine for bouquets; blooms first year if sown early. Hardy perennial. **Pkt., 10c; ¼ oz., 25c; oz., 60c.**

964 **PANICULATA**, Double. Pure white, giving a very large percentage of double flowers. Hardy perennial. **Pkt., 20c; 1/16 oz., 60c.**

965 **REPENS**. White. A pretty dwarf trailing species for the rockery. It has pinkish white flowers and is a continuous bloomer. Hardy perennial. **Pkt., 10c; ¼ oz., 35c**

966 **REPENS ROSEA**. A pale pink form of the above variety, both lovely in the rock garden or in the dry wall. **Pkt., 15c; 1/16 oz., 35c; ¼ oz., 60c.**

Helianthemum - Rock or Sun Rose

Low growing, shrubby evergreen perennial plants, loving sunshine and dry, exposed positions. Easily raised from seed, but should be sown right out in the open where they are to bloom, or grown in pots and then set out.

967 **MUTABILE**. Forms a low mat of glossy foliage which is hidden by a mass of rose, pink, white and yellow flowers during early June and July. 8 to 12 inches. **Pkt., 10c; ¼ oz., 35c; 1/16 oz., 50c.**

Heuchera - Coralbells

A very graceful hardy perennial for rockeries and borders. Foliage pale green, dwarf and compact, above which rise numerous panicles of flowers which are excellent for cutting. Easily grown from seed.

968 **SANGUINEA MAXIMA**. Flowers bright coral red, very free-flowering, grows in either sun or half shade. 12 to 18 inches. June to September. **Pkt., 25c.**

969 **CHOICE HYBRIDS**. Embrace every shade from white to glowing crimson. **Pkt., 15c; 1/16 oz., 60c.**

Hibiscus - Rose Mallow or Marsh Mallow

970 **GIANT FLOWERING**. Mixed. Showy, ornamental shrub, growing to a large size and blooming the first year from spring-sown seed. Hardy as an oak and will thrive in any soil. The flowers often measure 8 to 10 inches across, are gorgeous in colors and bloom in great profusion from late July to frost. Mixed colors. **Pkt., 10c; ¼ oz., 35c.**

Hollyhock

971 **DOUBLE WHITE**. An improved strain producing perfect double flowers. **Pkt., 10c; ¼ oz., 50c.**

972 **NEWPORT PINK**. Pure pink; flower very double. **Pkt., 10c; ¼ oz., 50c.**

973 **DOUBLE SCARLET**. Very brilliant. **Pkt., 10c; ¼ oz., 50c.**

974 **DOUBLE YELLOW**. A bright lemon color. **Pkt., 10c; ¼ oz., 50c.**

975 **DOUBLE MIXED**. Comprises all shades. **Pkt., 10c; ¼ oz., 40c.**

976 **SINGLE HOLLYHOCKS**. Mixed. **Pkt., 10c; ¼ oz., 25c.**

Honesty - Lunaria

977 **BIENNIS ALBA** (Saint Peter's Penny). Hardy perennial admired for its silvery seed pods, used for winter bouquets. Beautiful cross-shaped flower. Sow in open ground in May. Protect over winter. **Pkt., 10c; ¼ oz., 25c.**

ICE PLANT. See *Mesembryanthemum*, page 52.

Iberis - Hardy Candytuft

Low evergreen, shrubby perennial plants which are very valuable for dry sunny places, that are well-drained. The plants should be clipped over after flowering, in order to keep them compact and slight. Easily raised from seed.

978 **SEMPERVIRENS**. A splendid shrubby plant bearing dense clusters of china white blossoms, which cover almost entirely the dark, shining evergreen foliage. It is a good border plant, fine for dry walls, and the rock garden. Will grow either in a sunny or half-shaded position, 10 to 12 inches. May and early June. **Pkt., 15c; ¼ oz., 60c.**

979 **GIBRALTARICA**. A very showy and large flowering variety with lilac-pink blossoms. A less hardy sort, needing protection in winter. It must be given the hottest and driest position. Prefers a light soil. 10 to 12 inches. May and June. **Pkt., 15c; ¼ oz., 40c.**

Lathyrus Latifolius

(Everlasting, or Hardy Sweet Pea)

Showy, free-flowering hardy perennial climbers for covering old stumps, fences, etc., continually in bloom; fine for cutting.

980 **MIXED**. All colors. **Pkt., 10c; ¼ oz., 25c.**

Lavender - Lavandula Vera

981 Well known, sweet-scented, hardy perennials; should be extensively grown in the mixed border. 3 ft. **Pkt., 10c; ¼ oz., 25c.**

Leontopodium - Edelweiss

982 **ALPINUM**. This world famous alpine, although a native of the European Alps, being subject to severe and sudden changes of temperature, can be grown easily from seed in ordinary garden soil. Downy star-like silvery white flowers with yellow centers rise well above a tuft of narrow, hoary leaves. Grows to perfection in an elevated position in the rock garden in light, well-drained soil in full sun. Height, 6 inches. June and July. Hardy perennial. **Pkt., 35c.**



Iberis Semperfervens.



Lunaria - Honesty or Money Plant.

Lewisia

983 HOWELLI. A creeping hardy perennial, forming a wide rosette of narrow crinkled foliage, not exceeding 3 inches in height, and throwing up stems about 6 inches long, crowned with flowers of apricot, streaked with rose. A rare and lovely plant, which will be of admirable effect in rockeries. From seed sown in spring the plants will bloom in the following year. The seedlings should be given a sunny and well-drained situation and must not be over-watered. **Pkt., 35c.**

Liatris - Blazing Star

984 SCARIOSA. Spikes of deep purple flowers. 3 to 4 feet, August and September. Hardy perennial. **Pkt., 15c.**

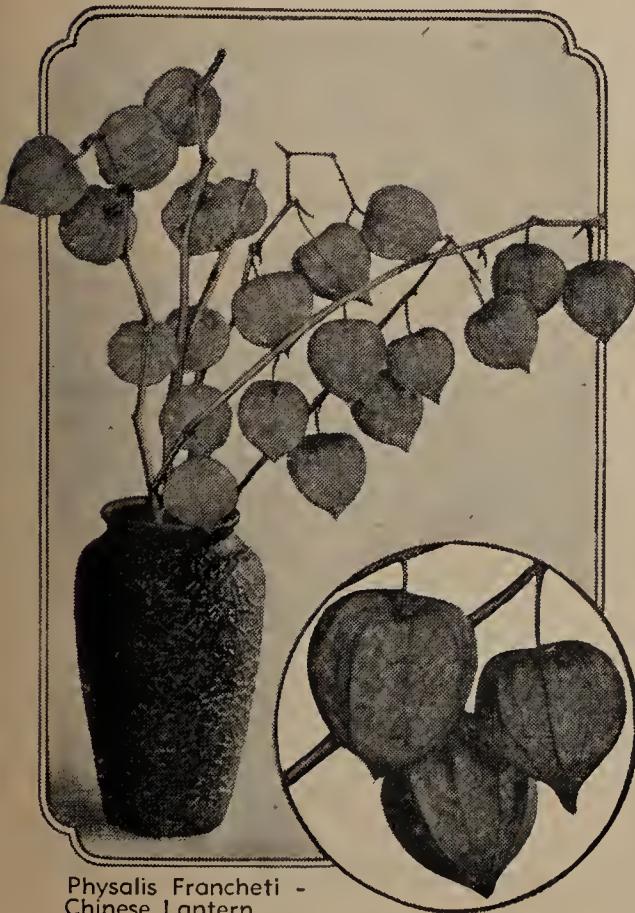
Lilium

985 PHILIPPINENSE FORMOSANUM. Long white trumpet flowers of purest white, slightly marked externally with reddish brown. Very refined and graceful. Will flower from seed within 6 to 8 months. **Pkt., 35c.**

986 REGALE (Regal Lily). It is absolutely hardy and is excellent for forcing. The flowers are white, slightly suffused with pink, with a beautiful shade of canary-yellow at the center, and extending part way up the trumpet. It is delightfully perfumed, reminding one of the jasmine, and lacking the heavy, oppressive odor of most Lilies. Blooms out-of-doors early in July, and seedling bulbs will flower the second year. Lift the bulbets in fall and replant to greater depth in their permanent location. **Pkt., 15c; 1/2 oz., 35c.**

987 TENUIFOLIUM (Coral Lily of Siberia). It is a gem. Perfectly hardy. One of the earliest to flower. 24 in. high with the flowers up and down on the stem. Blooms are deep scarlet and have recurved petals of waxy texture. **Pkt., 25c.**

988 WILLMOTTIAE. Flowers vivid orange-red with the recurved petals bearing spots of brown, slender foliage of a rich brown. **Pkt., 35c.**



Physalis Franchetii - Chinese Lantern.

Linum - Flax

Showy, free-flowering plants with feathery foliage, suitable for dry, sunny borders or rock gardens. Will not thrive in heavy, damp soils.

⑨89 ALPINUM. A rare species from the Dauphine, of prostrate growth, with showers of pale blue blossoms throughout the summer. Height, 6 inches. Hardy perennial. **Pkt., 25c.**

⑨90 FLAVUM. Gay yellow flowers in loose clusters. Foliage dark green, forming a dwarf group in the perennial border. Thrives in a sunny situation in light rich soil. Hardy perennial. **Pkt., 15c; 1/8 oz., 60c.**

⑨91 PERENNE. Bright blue flowers, Hardy perennial. 18 inches. **Pkt., 10c; 1/4 oz., 25c.**

Lupinus Polyphyllus

Most beautiful hardy border plants producing tufts of soft green foliage, from which arise in continuous succession the stately spikes of bloom. Do not disturb plants after they are once established. June and September.

⑨92 DOWNER'S HYBRIDS. Perpetual flowering new hybrids. **Pkt., 15c; 1/4 oz., 45c.**

⑨93 BLUE. **Pkt., 10c; 1/4 oz., 25c.**

⑨94 PINK. **Pkt., 15c; 1/4 oz., 40c.**

⑨95 SUPERB MIXED. **Pkt., 10c; 1/4 oz., 25c.**

Lychnis

A fine old-fashioned flower, bearing large heads of brilliantly colored flowers, that liven up the border during summer and early autumn. Hardy perennial.

⑨96 VISCARIA SPLENDENS. Brilliant red. **Pkt., 10c; 1/4 oz., 25c.**

Myosotis - Forget-Me-Not

⑨97 PALUSTRIS SEMPERFLORENS.

An ever-blooming variety, beginning to flower in May and continuing till autumn. Large clear, blue flowers in pretty spray. Perennial. **Pkt., 10c; 1/8 oz., 50c.**

Nepeta - Catnip

⑨98 NERVOSA. A splendid plant for the larger type of Rock Garden and much superior for this purpose to *Nepeta Mussini*. The flowers are of a clear light blue and have a brighter and more attractive effect than the latter.

The plant continues in bloom from midsummer until the early autumn. Thrives in any light garden soil in a sunny situation. Hardy perennial. **Pkt., 15c.**

Oenothera - Evening Primrose

The Oenotheras are chiefly used in the rockery and border. All require a well-drained light soil intermixed with well-decayed manure. They are apt to perish in winter if grown in heavy, damp soils.

⑨99 MISSOURIENSIS. A low species with prostrate ascending branches. A profuse bloomer. Solitary yellow flowers often 4 inches across. Height, 10 inches; in bloom from June until August. Hardy perennial. **Pkt., 15c; 1/8 oz., 65c.**

PANSIES, TUFTED. See *Viola*, page 51.

Phlox, Perennial

1001 DECUSSATA MIXED. Contains all the new brilliant colors; large flowering. **Pkt., 15c; 1/4 oz., 60c.**

Pentstemon - Beard Tongue

A beautiful perennial plant producing freely large spikes of handsome tubular flowers in almost every shade and color.

1000 GLOXINIOIDES, "SENSATION".

As a bedding plant this takes rank with the Petunia, Phlox, etc. It grows about 30 inches high, every branch being a spike of large, Gloxinia-like flowers in a very wide range of bright colors, including rose, red, carmine, pink, lilac, purple, etc. **Pkt., 15c; 2 pkts., 25c.**

PETUNIA. See pages 36, 37.



Lupinus, Downer's Hybrids.

Physalis - Chinese Lantern Plant

1002 FRANCHETI. An ornamental plant forming dense bushes about 2 feet high, producing freely its bright orange-scarlet lantern-like fruits, which can be cut and dried for winter bouquets; highly interesting. Perennial. **Pkt., 10c; 1/4 oz., 35c.**

Physostegia - False Dragon Head

One of the prettiest hardy perennials and gaining in popularity as it becomes better known. It forms dense bushes 3 to 4 feet high, bearing freely during the summer months spikes of delicate rose-lilac or white tubular flowers, not unlike a gigantic heather.

1003 VIRGINICA. Rose-lilac. **Pkt., 10c; 1/8 oz., 50c.**

Platycodon - Balloon Flower or Japanese Bellflower

One of the best hardy perennials, producing very showy flowers during the whole season. They form large clumps and are excellent for planting in permanent borders or among shrubbery; easily raised from seed, which begins blooming in August if sown outdoors in April.

1004 GRANDIFLORUM BLUE. Large deep blue flowers. **Pkt., 10c; 1/4 oz., 40c.**

1005 GRANDIFLORUM ALBUM. Pure white. **Pkt., 10c; 1/8 oz., 40c.**

⑩06 MARIESI. A beautiful dwarf species, with broad, thick foliage and large, deep violet-blue flowers on 12-inch stems in great profusion throughout the entire summer. Plant in front of the border or in the rock garden. **Pkt., 15c; 1/16 oz., 65c.**



See
All-America
Selections
for 1936.
See inside back
cover.

Pyrethrum, Single and Double Painted Daisies.

Perennial Poppies

Oriental Poppies (Papaver Orientale)
These are highly decorative. Their huge, brightly colored flowers are borne profusely during May and June. Sow where to bloom. Height, 3 feet.

1007 BEAUTY OF LIVERMORE. Crimson, black blotch. Pkt., 15c.

1008 ORIENTALE, PERRY'S WHITE. The flowers are a fine satiny white with a crimson-maroon blotch at the base of each petal. Pkt., 25c.

1009 SALMON QUEEN. Lovely salmon-yellow. Pkt., 20c.

1010 ORIENTALE SCARLET. Very hardy, producing showy scarlet flowers. Pkt., 10c; 1/8 oz., 25c.

1011 ORIENTALE HYBRIDS. Mixed colors. Pkt., 10c; 1/8 oz., 40c.

Iceland Poppies - Papaver Nudicaule

Graceful light green tufts of foliage; large gaily colored flowers on stems 1 foot tall. Bloom for many months.

1012 FAKENHAM HYBRIDS. A blend of new tints, such as apricot, biscuit, mauve, deep tangerine, all shades of lemon and many others. Pkt., 20c; 1/16 oz., 65c.

1013 SUNBEAM MIXED. Long stems and large flowers. Pkt., 10c; 1/8 oz., 25c.

Potentilla

A hardy perennial trailing plant which covers the ground rapidly, sending out many roots. Potentillas resemble the strawberry plants, especially in the manner of growth and the foliage.

1014 NEPALENSIS, MISS WILL-MOTT. Flowers salmon-pink, very freely produced. Pkt., 15c; 1/16 oz., 35c.

Pyrethrum - Painted Daisy

1021 HYBRIDUM. Single and double varieties, mixed. Hardy perennial, bearing large daisy-like flowers, ranging in color from white to deep red, with bright yellow centers; blooms in May and June, and again in the fall; and is one of the most graceful and long-lasting cut flowers. 2 feet. Pkt., 15c; 1/8 oz., 50c.

Double Pyrethrum

The three double types listed below will produce 90 per cent true from seed. Up to the present Double Pyrethrums have only been propagated by division.

1022 DOUBLE RED. Pkt., 25c.
1023 DOUBLE ROSE. Pkt., 25c.
1024 DOUBLE PURE WHITE. Pkt., 25c.

DOWN THE PRIMROSE PATH

Primula - Hardy Primrose

The Primrose is a splendid plant for naturalizing near shrubs or shaded nooks and moist places on the rockery. Primroses are not at home in the open herbaceous borders, but thrive in sheltered, lightly wooded places, where they may grow among the Violets, Hepaticas and Bloodroot. They generally establish themselves in damp and shaded positions which are generally most difficult to fill. Perennial.

1015 CASHMERICANA. Large purplish-blue flowers in globe-shaped clusters. Foliage beautiful. Thrives in moist loam having good drainage; prefers a half-shaded situation. Blooms early. 8 to 12 inches high. Pkt., 35c.

1016 CORTUSOIDES. Broad soft foliage in a rosette close to the ground. Flowers in early summer, deep rose; prefers light, rich, well drained soil, in a half-shaded position in the border or rockery. 6 to 10 inches high. Pkt., 25c.

1017 VULGARIS. The old English Primrose with pale yellow flowers. 6 to 9 inches high. Grows in half shade. Mid-April to June. Pkt., 15c; 1/16 oz., 40c; 1/8 oz., 65c.

Polyanthus

(Bunch Primrose)

Showy, free-flowering perennials that should be used largely in borders, wild gardens and rockeries. If your soil is light and dry and you have no shaded situations, do not try to grow the true Primroses as offered above, but confine your efforts to the Polyanthus that we list below. The Polyanthus or Bunch Primroses will thrive in full sun if they have some moisture at the root; if not, they must be given the comfort of partial shade.

1018 MRS. BERKELEY'S STRAIN. The seed of this strain is saved only from the largest flowers having the best form and especial pains are taken to ensure as wide a range of colors as possible, including brilliant shades of red, orange and bronze, as well as the richest maroon and yellows, and pure white. Pkt., 25c.

1019 MUNSTEAD STRAIN MIXED. This strain of Bunch Primroses has been perfected in the gardens of Miss Jekyll of England. The flowers show shades of yellow, from cream to dark orange. 6 to 10 inches. Late April and May. Pkt., 25c.

1020 VERIS (Cowslip). Mixed shades of yellow, very fragrant. 6 to 10 inches. Late April and May. Pkt., 15c.
Our Primroses are pure strains from the best English growers.

Saponaria - Rock Soapwort

1025 OCYMOIDES SPLENDENS. Elegant trailing perennial with pretty rich rose-colored flowers; suitable for rockeries. Pkt., 10c; 1/4 oz., 30c.

SHASTA DAISY. See Chrysanthemum, page 45.

Saxifraga - Rockfoil

Saxifrages thrive in deep gritty loam and sunshine. Sow the seed upon the surface of a pot or flat of very fine sandy soil, not covering it at all. Cover with paper or boards to insure darkness and to check the evaporation of moisture. Perennial.

1026 SPECIES MIXED. This mixture contains both the Mossy and the Encrusted species in colors of white, blush, pink, or crimson. 6 to 15 inches. May and June. Pkt., 25c.

Perennial Scabiosa

1027 ISAAC HOUSE STRAIN. A wonderful improvement in perennial Scabiosa. They are more vigorous in their plant growth, having longer and stouter stems with the average size of flower more than a third larger than the best strain of Caucasica we have heretofore seen. The outer edges are ruffled and fringed and the colors range from a very light lavender to a dark blue. Pkt., 25c.

PERENNIAL SCABIOSA—Continued.

1028 FISCHERI. For description, see Novelty page 25. Pkt., 35c.

1029 COLUMBARIA. This is a South African form of the European Scabiosa and although reminiscent of Caucasica, is a distinct type. It can be briefly described as a hardy, low growing perennial with fine, light green foliage, some of the flowers measuring from two and a half inches across with short, compact petals, borne on long, slender, but strong stems. We offer this choice perennial in a beautiful pink shade which is a new color in Perennial Scabiosa. Pkt., 20c.

1030 CAUCASICA BLUE PERFECTION. 3 feet. Especially valuable for cutting, the blooms lasting an unusually long time in water. Pkt., 15c.

1031 CAUCASICA ALBA. A large, pure white variety; the flowers, 3 to 4 inches across on long stems, are exquisite for vases, lasting a long time. Pkt., 15c.

Statice

1032 DICKSONII. Dicksonii is undoubtedly the outstanding Statice introduction of recent years. It is quite unlike any other variety in commerce, and as far as we can discover, unknown to the gardeners of this country and Europe. The flowers are very large and open, borne in quantities on long-stemmed large sprays which have a delightfully lacy open effect. The plants are fully hardy, rather slow growing, with tough, dark green, long, narrow leaves making a neat clump from which rise the sprays of deep rose flowers. Plants will not flower the first year from seed, but they are well worth waiting for an extra season. Pkt., 20c.

Stokesia - Cornflower Aster

1033 CYANEA. This is not new, but is a rare and beautiful hardy perennial. The plant grows about 24 inches high, each bearing from 20 to 30 handsome lavender-blue cornflower-like blossoms; in bloom from July till frost. One of the choicest subjects for the hardy border and indispensable for cutting. Pkt., 10c; 1/8 oz., 25c.

Sweet Rocket - Hesperis

Old-fashioned garden plants; growing about 3 feet high, bearing spikes of showy fragrant flowers. Excellent for naturalizing among shrubbery or for planting in a permanent border. Hardy perennial.

1034 VIOLET. Pkt., 10c; 1/4 oz., 20c; 1/2 oz., 60c.

1035 WHITE. Pkt., 10c; 1/4 oz., 20c; 1/2 oz., 60c.



Primula Cashmeriana.

Sweet William - Dianthus Barbatus

A well-known, old-fashioned perennial which has long been used for beds and borders. It is one of the most desirable plants in the garden, is easily grown, very hardy and free-flowering, continuing in bloom for several weeks. The flowers are borne in heads or clusters, sweet scented, in brilliant colors ranging from pure white through pink, crimson, etc., to deep purple. Most of them have two colors in the same flower. They are borne on stiff stems in graceful profusion and the clusters are often 3 to 4 inches across. Useful for cutting. Height, 1 1/2 feet.

1036 NEWPORT PINK. A distinct new color which originated in one of the far-famed gardens at Newport, R. I. In color it is what florists call watermelon-pink or salmone rose. Strikingly brilliant and beautiful; the flowers are borne in massive heads on stems 18 inches high. For mid-season mass bedding it has no equal. It is also very effective for cutting. **Pkt., 10c; 1/4 oz., 35c.**

1037 HOLBORN GLORY. This strain is a large-flowered selection of the auriculately section, the most beautiful and admired of all Sweet Williams. The individual flowers and trusses are of extraordinary size, while the range of color, all showing a clear, white eye, is truly superb. **Pkt., 10c; 1/4 oz., 25c.**

1038 SCARLET BEAUTY. Intense scarlet. **Pkt., 10c; 1/4 oz., 35c.**

1039 DOUBLE MIXED. A splendid strain of this beautiful perennial, comprising a great variety of excellent shades. **Pkt., 10c; 1/4 oz., 35c.**

Thalictrum - Meadow Rue

Handsome dark foliage resembling the Columbine. The flowers are borne in feathery clusters. Very useful in making bouquets. Its light and graceful habit makes it very valuable in the perennial border or when placed among the shrubbery.

1040 DIPTEROCARPUM. A handsome herbaceous plant, with loose sprays of clear rosy-purple with lemon-yellow stamens and anthers. The plant is of strong growth, about 4 to 5 feet high. The flowers are produced during August and September. Thrives best in a poor soil in a sunny position. **Pkt., 15c.**

Tritoma

(Red-hot Poker, or Torch Lilly)

1041 HYBRIDA. The introduction of new, continuous flowering Tritomas has given them a prominent place among hardy bedding plants. It is not generally known that they are readily grown from seed, many flowering the first year if sown early. Of course, for immediate results it will be better to get plants, but raising them from seed is highly interesting. Perennial. **Pkt., 15c; 2 pkt., 25c.**

Trollius - Globe Flower

1042 Ledebouri, Golden Queen. The plant is very vigorous, grows from 3 to 4 feet in height, but its chief value lies in the size of the flowers, the intense orange color, the extreme floriferousness and the constancy with which it flowers in autumn as well as early summer. It comes practically true to type from seed. Most Trollius are rather uncertain to raise from seed when sown in the spring, but one of the greatest recommendations this introduction has is that the seed germinates freely when sown in spring. Seed germinates slowly. Soak in hot water for 5 to 6 hours before sowing. Hardy perennial. **Pkt., 35c.**

1043 MIXED VARIETIES. Saved from a collection of the newest varieties, ranging in color from pale yellow to deep orange; on strong stems 2 feet high. Hardy perennial. Grows best in a half-shaded moist situation. May and June. **Pkt., 15c.**

Tunica - Coat Flower

®1044 SAXIFRAGA. A low growing hardy perennial with narrow dark green foliage, above which rises a multitude of small pale pink blossoms. Grows about 6 inches tall, forming patches a foot or more across. Makes an excellent carpeting plant both for the rockery and as an edger for the border. Full sun. June and July. **Pkt., 10c.**

Valeriana - Garden Heliotrope

Showy hardy perennial; forms small flowers in dense clusters. Very fragrant.

1045 CRIMSON. **Pkt., 10c; 1/8 oz., 25c.**

Veronica - Speedwell

Hardy perennials, suitable for the border and rock gardens, of easy culture, thriving in any good ordinary soil. Cut back all faded flowers to promote new growth and additional blooms.

®1046 INCANA. A white, woolly plant; flowers numerous; color ageratum blue. Useful in the rockery or for edging paths and flower beds. Height, 1 foot. July and August. **Pkt., 15c.**

®1047 SPICATA. An elegant border plant, growing about 1 1/2 feet high, producing long spikes of bright blue flowers in June and July. Hardy perennial. **Pkt., 15c; 1/16 oz., 60c.**

®1048 PROSTRATA. Prostrate foliage, brilliant blue flowers. 6 to 12 inches. May and June. A delightful perennial for the rockery or dwarf border. **Pkt., 15c.**



Tritoma—Red Hot Poker.



Sweet William, Holborn Glory.



Trollius, Golden Queen.

Large Flowering Violas

1053 ARKWRIGHT RUBY. Terra-cotta markings on crimson; very fragrant. **Pkt., 35c.**

1054 AURORA. Bluish purple. **Pkt., 25c.**

1055 AVALANCHE. Pure white, great size and substance. **Pkt., 35c.**

1056 BLUE BUTTERFLY. For description, see Novelty page 25. **Pkt., 35c.**

1057 PRIMROSE PERFECTION. Beautiful shade of primrose. Dwarf and compact; the flowers are so numerous that the plant is almost hidden by them. **Pkt., 35c.**

1058 YELLOW QUEEN. Deep yellow. **Pkt., 35c.**

1059 LARGE FLOWERING MIXED. **Pkt., 35c.**

Viola Odorata

(Sweet-scented English Violet)

1060 PRINCESS OF WALES. Hardy violet, grows anywhere. Large, single fragrant blooms. **Pkt., 25c.**

Flower Seeds for Greenhouse Culture

Calceolaria

1061 "ALBERT KENT" HYBRIDS. The warm welcome which was accorded to the Calceolaria, Albert Kent, on its introduction a few years ago has been extended to these beautiful hybrids. We offer them in a mixture which will produce ten to twelve varied colorings, possessing all the valuable characteristics of the parent variety. The plants bear immense trusses of bloom throughout the summer. **Pkt., 50c.**

Cineraria

1062 GRANDIFLORA JAMES' STRAIN. A fine exhibition strain with immense flowers and vivid colorings. **Pkt., 35c.**

1063 STELLATA FELTHAM BEAUTY. A beautiful mixture of many colors. **Pkt., 35c.**

Cyclamen

1064 PERSICUM GIGANTEUM MIXED. One of the finest strains of large flowered English Cyclamen which comprises the best shades and colors, varying through the various shades of white, pink, crimson and dark red. Greenhouse perennial. **Pkt., 35c.**

Smilax

1067 In many respects Smilax is the most useful, and it is certainly one of the most graceful climbers which adorns the greenhouse or conservatory; for bouquets and floral decorations it is indispensable. $\frac{1}{4}$ oz., 25c; oz., 75c; pkt., 10c.

VINES—Climbers and Trailers

Ampelopsis - Boston Ivy

1068 VEITCHI. The leaves are olive-green turning to scarlet in autumn. Perfectly hardy; grows 30 to 60 feet. It clings firmly and permanently to walls, trees, etc. Very desirable. **Pkt., 10c.**

Balsam Pear and Apple - Momordica

Tender annual climbers bearing ornamental fruits of various colors. They grow 10 to 12 feet high. Have light green foliage, rather large leaves and are very graceful.

1069 BALSAM APPLE. Like Balsam Pear with foliage smaller and smaller fruits, very nearly round. Green striped when young, afterwards becoming scarlet. $\frac{1}{4}$ oz., 25c; pkt., 10c.

1070 BALSAM PEAR. Fruits oblong, pointed and warted, first green, afterwards changing to bright red. When fully ripe, burst open exposing the seed. Largely used for putting in alcohol or whiskey and used as a poultice or for cuts, bruises and wounds. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Canary Bird Flower

1071 CANARY BIRD FLOWER. A beautiful climber with small beautiful, rich yellow flowers and dark foliage, the leaves resembling palm leaves. It is a quick grower attaining a height of 12 feet. Blooms profusely from July until frost. **Pkt., 10c.**

Cardinal Climber

1072 The most brilliant, beautiful and distinct annual climber introduced for many years. Rapid grower with branching habit; flowers all summer; cardinal-red clusters, 15 to 25 feet. $\frac{1}{4}$ oz., 35c; pkt., 10c.

Cobaea Scandens

An attractive, rapid growing climber with large bell-shaped flowers which at first are green but gradually change to a deep violet-blue. The foliage is handsome, dark green; a great profusion of tendrils is produced and it is valuable for arches, trellises, arbors, and attains a height of 30 feet in a season.

1073 Blue. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Cypress Vine

A beautiful rapid growing climber with delicately cut vivid green foliage and star-like flowers which make a most effective contrast with the leaves. Annual.

Seed is usually sown outdoors where the plants are to remain, covering 1½ inches deep. About 15 feet high.

1074 MIXED. Scarlet and white. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Gourds

1075 DIPPER. Fruit makes an excellent dipper and may be used for wren's nest. **Oz., 25c; pkt., 10c.**

1076 MIXED. Mixture of small sorts including many curiously shaped and ornamental sorts. **Oz., 25c; pkt., 10c.**

Hyacinth Bean - Dolichos Lablab

A beautiful tender annual bearing large clusters of purple and white flowers which are afterwards followed by ornamental purple seed pods. Height, 15 to 20 feet.

1077 MIXED COLORS. **Oz., 25c; pkt., 10c.**

Ice Plant - Mesembryanthemum

④ 1078 Valuable for hanging baskets, rockwork, vases and window boxes. It is curious growing, the leaves and stems appearing as though covered with ice crystals. A tender trailing annual growing about 6 inches high and the vines will extend 2 feet long. $\frac{1}{4}$ oz., 25c; pkt., 10c.

Primula Obconica

1065 GIGANTEA MIXED. Splendid range of colors; flowers very large, growth vigorous. **Pkt., 35c.**

Primula Malacoides - Giant Baby Primrose

Primula Malacoides should not be sown as early as Primula Sinensis or Primula Obconica, but should be started about June for blooming in early winter.

1066 MALACOIDES FIMBRIATA. Lovely pink flowers, delicately fringed. **Pkt., 35c.**

The following varieties which are fully described throughout the Annual and Perennial flower seed pages, can also be grown in the greenhouse. These will furnish you with beautiful cut flowers, as well as pot plants.

ANEMONES, see page 44.

BEGONIAS, see page 29.

CALENDULAS, see page 29.

CANDYTUFT, see page 30.

CARNATIONS, see page 30.

CORNFLOWER, see page 30.

DIDISCUS, see page 31.

GERANIUMS, see page 32.

GERBERAS, see page 47.

GYPSOPHILAS, see page 32.

LARKSPUR, see page 33.

NEMESIA, see page 35.

PANSIES, see page 35.

SNAPDRAGONS, see page 27.

SALPIGLOSSIS, see page 38.

SCHIZANTHUS, see page 39.

SWEET PEAS, see page 39.

Moonflowers

These beautiful climbers grow rapidly and will reach a height of 20 to 30 feet. For best results, start seeds indoors and set plants out when weather has become warm. Soaking the seed in warm water for 24 hours is beneficial.

1079 GIANT PINK HYBRID. A beautiful lavender-pink. Large flowers, large sub-tropical foliage. $\frac{1}{2}$ oz., 35c; oz., 60c; pkt., 10c.

1080 SKY BLUE. Large sky blue flowers. Blooms profusely. A strong growing vine, excellent for porches, garden houses, etc. Blooms late September and October. $\frac{1}{4}$ oz., 50c; pkt., 10c.

1081 GIANT WHITE. The vines are just covered with immense white flowers, opening in the evening and remaining open during cloudy days. $\frac{1}{2}$ oz., 30c; oz., 50c; pkt., 10c.

Morning Glories

The well-known and popular hardy annual climbers which produce large trumpet-like flowers of many brilliant colors. Seed is sown where they are to bloom, thinning as may be desired. Height, 10 to 15 feet.

1082 ROSE MARIE. We have the pleasure in offering an early, free-flowering double form of Ipomoea. Flowers are a beautiful shade of deep rose of double and semi-double form. We predict Rose Marie will become as popular as Ipomoea Heavenly Blue Morning Glory is today. $\frac{1}{4}$ oz., 25c; pkt., 10c.

1083 HEAVENLY BLUE. Immense flowers of bright sky blue, very beautiful. $\frac{1}{4}$ oz., 50c; pkt., 10c.

1084 JAPANESE. Flowers of largest size, often 3 inch across, in magnificent colors and brilliantly marked. **Oz., 25c; pkt., 10c.**

NASTURTIUM. (Tall). See page 35.

Thunbergia - Black-Eyed Susan

An attractive climber growing 4 to 6 feet long which is largely used for garden vases, window-boxes, hanging baskets, etc. Flowers are about 1 inch across, being of creamy white, buff and orange colors with very dark brown throats; very free-blooming. A very attractive plant both in foliage and in abundance of flowers.

1085 MIXED. Colors, creamy white, buff and orange. $\frac{1}{4}$ oz., 30; pkt., 10c.



Morning Glories, Heavenly Blue.

General List of Field Seeds

Prices on all Field Seeds are subject to fluctuations. We will be glad to quote you firm prices on request. Orders entrusted to us will be filled at the lowest price on the day received.



ACME Brand FARM SEEDS Tested to Give Best Results

Our Seed Testing Laboratory is qualified under the rules of the Official Analysts Association of North America.

LESPEDEZAS. Although still in the experimental stages of development in the Northern limits of growth, they are extensively used, and have been found somewhat better adapted to acid and thin soil than the common Clovers, but are in no way substitutes for them on better soil. They are leguminous plants that are profitable as soil builders, particularly when inoculated. The Korean and Japanese varieties are annuals which under favorable conditions will reseed themselves if given a short period of rest from grazing. Sericea is a perennial coming each year from the roots and should not be grazed until well established and even then carefully controlled. Lespedezas are used principally as forage and soiling crops, furnishing pasturage during the late summer and early fall months before frost at a time when other grasses have reached their dormant stage.

Seed should be sown during March and April on established pastures, broadcast at the rate of 10 to 15 pounds per acre; on specially prepared seed beds seed can be sown at the rate of 15 to 20 pounds as late as June 1st. Best crops of hay are secured on moist bottom lands, cut at the bloom stage or shortly after. North of the Ohio River Korean has been preferred to the Japanese because of larger yields and earlier maturity.

RED CLOVER (*Trifolium pratense*). Too well known to need extended description. Can be sown either in the spring or fall, and requires 8 to 12 lbs. per acre alone or 5 to 6 lbs. per acre if in mixture with grasses.

MAMMOTH OR SAPLING CLOVER. Similar to Red Clover but of larger growth and blooms three weeks later, hence more valuable for sowing with Timothy. It also forms better aftermath than Red Clover. Requires same quantity of seed as Red Clover per acre.

ALSIKE CLOVER (*Trifolium hybridum*). One of the best Clovers for sowing with Timothy, as they mature at the same time. Blossoms flesh color. It is very hardy and will do well on thin or poorly drained soils making very satisfactory pasturage. It is also valuable for hay. If sown alone requires 4 to 6 lbs. per acre or in mixture 2 to 3 lbs. per acre.

CRIMSON CLOVER (*Trifolium incarnatum*). An annual for turning under as a green manure crop or as a winter cover crop sown in July or August, also early spring at rate of 15 to 20 lbs. per acre. It should be cut just before bloom stage for hay.

SWEET CLOVER. It is suitable for almost all classes of soil, except acid, and especially desirable on loamy, sandy or alluvial soils. Formerly it was used mostly for waste lands, but many prominent stock raisers are using it extensively for both pasturage and hay.

Sweet Clover is of vigorous growth and withstands extremes of heat and cold as the tap roots penetrate the soil very deeply, and it does well on both barren hillsides and bottom lands. Matures early. Can be cut two or three times a season; has a delightful and sweet scented odor, and the blossoms are particularly attractive to bees.

Scarified (Hulled) Seed should be sown in the fall, or in the spring after danger of frost is over. It requires 10 to 12 lbs. to the acre.

Unhulled Seed, however, can also be sown at the rate of 20 lbs. per acre during the winter months as frost action is necessary to loosen the hull before it will germinate. Fall sowing with winter wheat has been quite satisfactory in many sections and has become more popular in recent years for winter sowing in general.

We offer the following varieties:
White Blossom (*Melilotus alba*). A biennial legume, growing 5 to 6 feet high. Reseeds itself if left undisturbed. As a hay crop, however, it should be cut before it reaches the bloom stage, otherwise it may be woody and too coarse. It is cured similarly to alfalfa, but requires a little longer time. It is unsurpassed as a soil builder when properly inoculated. When pasturing, the stock should be turned in while the plants are young and tender and pastured continuously.

Yellow Blossom (*Melilotus officinalis*). A biennial not quite so tall growing as the White, but more desirable for pasture as the life season is much longer, producing an abundant yield of forage.

Hubam. An annual Sweet Clover with a growth of 3 1/2 to 6 feet. Is particularly good for bees as it blooms the first year. Also excellent as a green manure crop. Most favorable results are obtained by sowing broadcast. Requires 12 to 15 lbs. per acre.

ALFALFA OR LUCERNE (*Medicago sativa*). Alfalfa is being more generally grown, as experience is teaching our farmers the proper methods to follow. Once established, it is such a profitable crop that every farmer can afford to take great pains to obtain a stand. It requires cutting at least twice the first season, even if not large enough to make hay. Cutting destroys any weeds that may come up in it and gives the Alfalfa a chance. Must be sown at the rate of 10 to 15 pounds per acre when sown broadcast. Different soils do not seem so difficult to overcome, especially where they can be properly drained, pulverized, sweetened and seed inoculated.

Alfalfa does not thrive on acid or sour land.

A liberal dressing of fine ground lime will be found a great benefit to the soil. May be sown from April 1st to June 15th for the early spring sowing, either drilled or sown broadcast. If broadcast, cover lightly with a light drag or with single stroke of a harrow.

Much seeding is now done later and many prefer sowing from July 15th to September 15th. When seeded late it gives the grower an opportunity to have his land clean and free from weeds, and if weather conditions are favorable a crop is almost assured.

Alfalfa naturally prefers a deep, sandy or gravelly subsoil. Roots from 3 to 15 feet deep and a good stand on properly selected land should yield from 3 to 5 cuttings a year. We can supply both the Common and Grimm Type Alfalfa of Northwestern and Western origin as well as Ohio and Michigan grown stock.

Common Alfalfa. Has a purple bloom and tends to develop a single deep tap root system. It is generally found to produce more hay than the Grimm type, except when winter killing takes place.

Grimm Alfalfa. Has a variegated bloom and is characterized by a tendency toward a multiple root system. For this reason it is understood to be hardier than the Common type.

**Do not Fail
to Inoculate
all Legumes
with
NITRAGIN
— It Pays !**



INOCULATOR PRICES

When Ordering, Always Specify Name of Seed

Alfalfa, all Clovers

Size

1/2 bu. ea. \$.35
1 bu. ea.60
2 1/2 bu. ea. 1.25

5 bu. ea. 2.00
*25 bu. ea. 3.75
*25 bu. size. Packed only for Soy Beans, Cow Peas.

Vetch, Austrian Peas, Canadian Peas, Beans

Size

1/2 bu. ea. \$.30
1 bu. ea.45
*1 1/2 bu. ea.70
5 bu. ea. \$2.00
*100 lb. size. Packed only for Vetch and Peas.

LESPEDEZA Unhulled or Hulled

Size
1 bu. ea. \$.35
2 bu. ea.60
5 bu. ea. 1.25

Soy Beans, Cow Peas, Lima Beans

Size
1 bu. ea. \$.35
2 bu. ea.60
5 bu. ea. 1.25
10 bu. ea. 2.00
*25 bu. ea. 3.75

*25 bu. size. Packed only for Soy Beans, Cow Peas.

Garden Size
NITRAGIN for Garden Peas, Beans, Sweet Peas, Lima Beans and Lupines

Inoculates from 1 oz. to 8 lbs. seed.
Price....25c each

GENERAL LIST OF FIELD SEEDS — Continued

OATS, Swedish Type White and Fulghum. Our Oats are carefully selected and well recleaned. Do not confuse them with ordinary feed oats. Sow 1½ to 2½ bus. per acre.

OATS, Winter Turf Oats. For fall and spring sowing. 4 to 5 ft. high; straw is very palatable for stock. 1½ to 2 bu. per acre.

VETCH, Hairy or Sand (*Vicia villosa*). Winter annual, adapted to sandy soil and will do much to build up any soil especially when inoculated. Withstands cold weather. Should be sown from late August to middle of September at rate of 15 to 25 lbs. per acre. Can be sown with rye.

Spring Vetch (*Vicia sativa*). Used with oats for producing spring hay.

CANADA FIELD PEAS. Grown with oats will make a fodder or hay which double the production of milk. Should be sown in March or early April, two bushels of peas to two bushels of oats to the acre. The Peas should be sown first and plowed under about 4 inches deep; the oats then sowed and harrowed in. They will be ready for cutting about the end of June, when oats are in milk and the pods formed on Peas. Write for prices.

SUNFLOWER, Mammoth Russian. The best variety for the farmer. Drill in seed at about 8 to 10 lbs. to acre. It is much relished by poultry and horses. Current prices on request.

BROOM CORN. We carry varieties that are known to produce the finest quality straw, and command the highest prices. Sow 4 to 5 lbs. per acre in drills, rows 3 feet apart. Thin out the stalks to about 70 to the rod. Cultivate same as corn. Cut when seed is in the milk.

MILLET, True Tennessee Cultivated German. (Round Seed). This Millet withstands drought better than all other varieties. It is used as a summer hay crop and particularly adapted to rich or bottom soils. It should be sown thickly and cut when the heads are in bloom, never allowing it to get old or seed to form as this causes a great drain on the soil besides materially injuring the quality of hay. Very useful for cleaning rich, foul lands of weeds as its quick, abundant, luxuriant growth smothers most weeds. Sow one bushel per acre in May, June, or July. Two crops can be seeded on the same land in one season, if desired.

MILLET, White Wonder. Produces a very large head similar to the Tennessee Millet. Under certain growing conditions it is quite difficult to distinguish it from the cultivated Millet. The heads will run from six to eight inches. A very desirable feature is its earliness; the foliage is also very heavy and the leaves broad, resembling Golden Millet. It produces an immense amount of excellent fodder which cures very readily.

HUNGARIAN. Specially adapted to rich or alluvial soil. It makes a finer quality of hay than Millet on very rich soil as it does not grow so coarse. Cut at the right time, which is in bloom, and cured properly, it makes a nutritious hay; is especially popular with dairymen. Sow from three-fourths to one bushel per acre in May, June or July.

BUCKWHEAT, Japanese. A splendid crop for poor land. Largely used for bees. Sow in June, July or August at rate of three-fourths to one bushel per acre broadcast, covering with a smoothing harrow. It does not mature grain until the cool nights—hence, too early sowing is not desirable.

KAFFIR CORN. Foliage and stalks do not contain saccharine matter, hence are not so valuable for feeding, but the enormous yield of grain makes it very profitable. The grain is very largely used for poultry and stock feeding, containing a high percentage of starch.

SOY BEANS. Are becoming more popular each year as a general purpose crop, being valuable not only for hay and forage, but also for soil improvement, following or preceding other crops. They are a valuable pasture crop for hogs as well as other stock, and can be sown by themselves for this purpose; or in the corn rows and the hogs turned in to feed on them after the corn is harvested.

The value of Soy Beans as a grain crop makes it particularly adapted to systems of rotation. Like other Legumes, Soy Beans are able to utilize the nitrogen of the air, adding it to the soil. Soy Beans should therefore be inoculated. Actual experiments have shown that legumes not inoculated rob the soil; inoculated they feed the soil. Sow 1½ to 2 bushels per acre broadcast, in drills 45 pounds, after danger of frost is past.

We carry the following varieties in stock. Write for full description and current prices.

Best for Hay Crop

Wilson	Laredo	Black Ebony	Virginia
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Other Varieties

Manchu	Hollybrook	Scioto	Dunfield
Midwest	Illini	Itosan	Mammoth Yellow

FOR PRICES,
SEE PAGE 53.

COWPEAS, The Great Soil Improving Crop. Grow best on light or sandy soils. Have a high feeding value. Belonging to the bean family, they are nitrogen gathering plants and if inoculated will improve the productiveness of the soil.

We carry the following varieties:

New Eras	Whippoorwill	Mixed Varieties
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New Eras are usually preferred in this section. Sow 1½ bus. per acre after danger of frost. Use Nitragin Inoculator.

RYE, Northern Rosen, Home Grown. Our Rye is carefully selected stock and well recleaned. Do not confuse it with ordinary milling Rye.

Barley needs a rich land and lighter than that adapted to wheat. It should be cut before fully ripe, if for hay, as it is then of better quality, and less liable to shell. Sow 1½ to 2 bushels if drilled; 2 to 2½ bushels broadcast. (48 lbs. per bu.).

We usually carry the following spring varieties:

BARLEY, Oderbrucker Bearded. Yields heavily and most commonly used in this section.

BARLEY, Spartan Bearded. But has smooth barbless beards.

BARLEY, Velvet or Barbless. A bearded variety.

Also for fall sowing we offer:

BARLEY, Winter or Fall Bearded. Description and prices on request.

DWARF ESSEX RAPE. Makes excellent pasture for both sheep and hogs and is a fine conditioner for all live stock, except milk cows. Best results are obtained by planting in two separate fields; pasturing alternately ten days each. Plant any time, early spring to midsummer. Sow 3 pounds per acre in drills; 6 pounds broadcast.

SUDAN GRASS. Sudan Grass produces an immense yield of nutritious hay. It can be cut twice in a season if planted early in the season but after frost danger. Grows 3 to 5 feet high. It is adapted to growing in all kinds of soil but produces the largest yield in warm, temperate latitude. After first cutting it stools enormously and then furnishes exceptionally fine pasture for all stock, except milk cows. It is killed by the first frost. 8 to 12 pounds in drills, 2½ to 3 feet apart or broadcast 20 to 30 pounds per acre.

SORGHUM OR CANE, Amber and Orange. Are favorites north of the Ohio river, growing 10 to 12 feet high. It makes an excellent fodder and it is also fine for silage.

Seed Corn

SEED CORN TREATMENT REDUCES DISEASE DAMAGE

We recommend Improved Semesan Jr., a dust disinfectant for preventing and controlling the ear, root and stalk rots of field corn. See page 61.

Our Field Corn is carefully selected, tested and graded. Ask for current prices, stating variety in which you are interested.

White Varieties

Ohio White Dent and Johnson County White Dent. Probably the best known varieties and most commonly planted in this section. Produces a large ear, slightly tapering, 8 to 10 inches long. Deep, large kernel, slightly rough and dented. Matures in about 100 days.

Hickory King Corn. The ears are small, 2 to 3 on a stalk. It has the largest grains and the smallest cob of any white Corn ever introduced. This is planted extensively for green table corn, as it produces 2 to 3 good ears to the stalk and is profitable.

Southern Prolific. A White Ensilage variety, reported to produce more tons of silage to the acre than any ordinary field Corn. Stalks grow 14 to 16 feet high, bearing 2 to 4 medium size ears. Matures in about 110 to 120 days.

Red Cob Ensilage. A popular variety, fodder Corn, either to feed green or put up for the silo; produces heavy foliage.

Yellow Varieties

Woodburn Yellow Dent. An extra early variety, demand for which is increasing each year. It is quite a favorite among the Corn growers, on account of its early maturity (about 90 days). It has exceptionally good yielding qualities. The cob is small and well filled from butt to tip, grain very deep. Produces an early crop and very desirable for late planting.

Leaming. An ideal feeder's Corn of light, golden color; ripening in about 110 days; ears slightly tapering and cylindrical. They grow 8 to 10 inches long, 7 to 8 inches in circumference. The ears are from 16 to 22 rows. The cob is red and of moderate size.

Ohio Yellow Dent. A medium early yellow variety, producing ears of good length and filling out remarkably well, even under adverse conditions. Stalks of good height, producing one or two good ears, which average 10 to 11 inches long, 14 to 16 rows. Grains flinty, deep; slightly dented, rich color, and fine feeding quality. Ripens in about 110 days.



Brilliant Flowered Cannas

Dormant Roots

Cannas do well in full sun and respond quickly to fertilizing of well-rotted manure. Blooming from early summer till frost, they give a gorgeous display without much expense or care.

Prices of named varieties listed below: per dozen, 75c; by mail, 90c per dozen.

Green Foliage

APRICOT. The color is a buff-yellow base overspread with salmon-pink, making a mass effect of rich apricot. 4 ft.

CANARY BIRD. Flower a pure canary-yellow, produced on strong erect stalks well above the large, rich green foliage. The color and habits of foliage identical with The President. 4 feet.

EUREKA. This is by far the very best white Canna ever introduced. Has showy large trusses. 4½ feet.

HUNGARIA. A great variety with beautiful clear rose flowers. Though old, still one of the most desirable. 3½ feet.

MRS. ALFRED CONARD. A very popular variety with glorious trusses of a bright salmon-pink color. 4 feet.

THE PRESIDENT. The greatest of all red Cannas—a brilliant, fiery, and intense scarlet. Extremely free-flowering and wonderfully vigorous growing to a height of 5 feet.

OUR 1936 MIXED DAHLIA COLLECTION

Composed only of selected varieties.
Nothing under one dozen sold.

Per Dozen, \$1.10
By Mail, \$1.25

THE BOOK OF GARDEN MAGIC

A real notebook for a real gardener, sturdy water-proof cover—looseleaf pages, clear practical illustrations—make this the most useful garden book yet published. In addition a monthly bulletin is sent to all purchasers without extra charge, calling attention to the operations for the current month. \$3.50.



Jersey's Beauty Dahlia.

YELLOW KING HUMBERT. As vigorous as King Humbert with bright yellow blooms dotted with bright red. It has rich green foliage and grows 4½ feet high.

Bronze-Leaved

THE AMBASSADOR. A wonderfully free-flowering variety with brilliant red blooms set off by bronzy foliage. 5 feet.

KING HUMBERT. Great massive trusses of brilliant orange-scarlet flowers that form a striking contrast to the dark coppery bronze foliage. A vigorous grower, 5 feet high.

SHENANDOAH. 4 feet. Flowers salmon-pink borne in large clusters; foliage rich ruby-red.

OUR 1936 MIXED CANNA COLLECTION

Per doz., 60c

By mail, 75c

Dahlias

READY ABOUT APRIL 1ST

CULTURE. Plant from May to July. Tubers should be planted about 6 inches deep, laid flat, eyes or sprout up. Allow at least 3 feet between plants, each way. Do not allow over three stalks to grow. Stake the plants. Keeping the suckers pulled off will produce the finest blooms. After frost dig and store in a dry place where they will not freeze. Covering the tubers with peat moss is very satisfactory.

The size of the tuber does not in any way designate the size or quality of the flower. Some varieties of dahlias always produce very small bulbs, while other varieties make larger ones.

Our stock is **CHOICE FIELD-GROWN Roots, strong divisions.**

J. Chas. McCullough Dahlia

INFORMAL DECORATIVE

The Dahlia we have been looking for. A winner of first prize ribbons at the Dahlia Show held at Fleischmann Gardens in Cincinnati, Oct. 4th and 5th, 1930, also Oct. 3rd and 4th, 1931, by the National Gardeners' Association, and various other flower shows. J. Charles McCullough is a gigantic flower that is easily one of the largest, handsomest and most outstanding of late introductions. The color is an amaranth-pink with marks of rose-pink. Markings of white on nearly all petals. Flowering habit very prolific.

J. CHAS. McCULLOUGH Dahlia blooms early and profusely. It has long stems, a stiff neck and finely cut foliage that forms a background for the flower even when disbudded. Even when neglected this Dahlia blooms beautifully and is satisfactory; but when cared for by the Dahlia enthusiast, its loveliness can be surpassed by none. The flowers are full to the center and keep indefinitely when cut. The plant is a strong, sturdy grower and will be a continual delight to all of our customers who are fortunate enough to own it. **Each, 75c.**

AMELIA EARHART (Semi Cactus). The outstanding introduction of 1933 and one of the largest dahlias grown. The formation and color are most artistic—a semi cactus of orange-buff, with base of petals primrose. A splendid bloomer, being considered one of the best. **Each, \$2.50.**

ANDREA ERICKSON (Decorative). Large, very pure white. Free-flowering and vigorous. **Each \$1.25.**

AVALON (Decorative). Pure clear yellow, the large flowers are very distinct and pleasing, always with a full center. One of the best of its color. **Each, 50c.**

DR. J. H. CARMEN (Decorative). A deep rose, producing many fine very large flowers from early to late. **Each, 50c.**

FT. MONMOUTH (Decorative). A rich crimson giant of the Dahlia world and a general favorite. **Each, 50c.**

GOLDEN SONNE (Cactus). Rich golden yellow, with soft rose suffusion; extra large flowers of graceful formation. **Each, 50c.**

JANE COWL (Decorative). Deep massive blooms of bronzy buff and old gold, blending darker toward the perfect center. The petals are broad with just enough twist to add the refinement often lacking in large Dahlias. A wonderful exhibition flower. **Each, 50c.**

JERSEY'S BEAUTY (Decorative). Still the leader of the pinks, standing in a class by itself. Very vigorous and clean grower on perfect stems. No garden should be without it. **Each, 50c.**

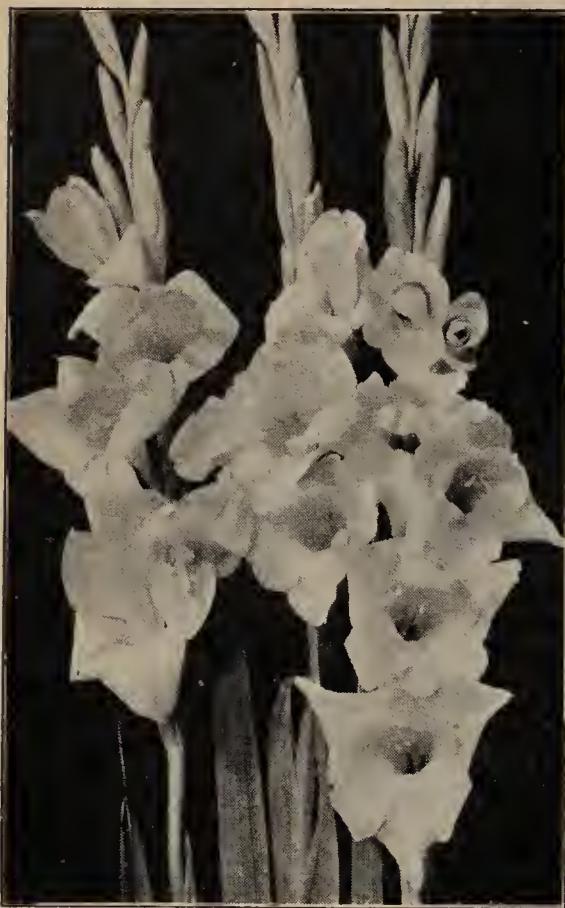
JERSEY'S BEACON (Decorative). Chinese scarlet with paler reverse, giving a two-tone effect. Huge flowers on strong stems. **Each, 50c.**

KATHLEEN NORRIS (Decorative). A massive Dahlia of true rose-pink deepening to mellow pink. A great bloomer on splendid stems. **Each, 50c.**

MARSHALL'S PINK (Decorative). A large light pink of very good stem and high quality. **Each, 75c.**

SATAN (Semi Cactus). A spectacular variety with horn like petals of fiery red touched with gold, rolled and incurved giving it rare form and unusual brilliancy. A strong husky grower with blossoms measuring up to 12 inches on long upright stems. **Each \$1.00.**

W. H. HOGAN (Decorative). A bi-color of red-tipped white that still leads. Good grower and good keeper. **Each, 50c.**



Glorious Gladioli.

AMERICA. One of the finest varieties for cutting or bedding; color a beautiful soft flesh-pink; orchid-like in its coloring and texture; growth and habit perfect. Each, 5c; per doz., 30c; per 100, \$2.00.

APRICOT GLOW. Beautiful warm Apricot shade. Each, 6c; per doz., 35c; per 100, \$2.50.

BETTY NUTHALL. Double row of huge florets. Lovely coral-orange shades with pencil-lines of soft red. Each, 6c; per doz., 45c; per 100, \$3.00.

J. C. McC. SUPERB MIXTURE. Largest size bulbs. Brilliant colors and shades. Per doz., 25c; per 100, \$1.50.

MISCELLANEOUS SUMMER FLOWERING BULBS

The Beautiful Amaryllis

GIANT AMERICAN HYBRIDS. A wonderful strain of new giant-flowered Amaryllis of free-blooming habit. The large flowers are composed of broad, overlapping petals ranging from crimson, orange, scarlet, and light rose to white. The bulbs should be planted in 6-inch pots in garden loam enriched with a handful of bone fertilizer. Cover bulb up as far as the neck; water sparingly until flower stalk appears; then water more freely as plant advances in growth. Large bulbs in mixture for delivery October to March. Each, 40c; 3 for \$1.10; per doz., \$4.00.

Begonias

Tuberous Rooted. Unexcelled for summer bedding, such as lawn beds and borders. Make fine pot plants. When fully exposed to the sun the beds must be kept moist. All prepaid.

Double Flowering Varieties

DOUBLE. Crimson, pink, scarlet, white and yellow in separate colors. Each, 25c; per doz., \$2.25; per 100, \$14.00.

DOUBLE MIXED. Each 20c; per doz., \$2.00; per 100, \$13.00.

Single Flowering Varieties

SINGLE. Crimson, pink, scarlet, white and yellow, in separate colors. Each, 20c; per doz., \$2.00; per 100, \$13.00.

SINGLE MIXED. Each, 20c; per doz., \$1.75; per 100, \$12.00.

Glorious Gladioli

Gladioli are among the most decorative plants in the garden and as cut flowers lend themselves readily to any arrangement. If the spikes are cut when the lowest flower is in bloom, the others will open in succession and remain fresh a week or ten days. Gladioli will thrive in almost any soil except a stiff clay. Plant the bulbs six to nine inches apart, the large ones four inches and the small ones two inches deep. Make an early planting of the smallest bulbs first as soon as the ground is sufficiently dry and warm. Continue to plant at intervals of two weeks during the spring and early summer; in this way a succession of bloom may be had from mid-summer until frost. A free use of water during the season of active growth, particularly as the buds begin to show color, will be beneficial in producing fine blossoms. In the autumn before freezing, they should be dug and the tops allowed to dry down, after which the dry tops, earth and old bulbs can be removed. Store in a cool place, secure from frost, until spring.

QUEEN CITY GLADIOLUS COLLECTION

AVE MARIA. Splendid substantial flowers of a light blue color with a contrasting purple blotch. A favorite. Each, 8c; per doz., 85c; per 100, \$6.00.

MARMORA. A gigantic silver gray with rose throat. This is sometimes called a smoky but is more of a gray. 8-10 perfectly placed blooms open. This is one of the finest varieties on the market. Very fine used with yellow. Wonderful florist flower. Each, 6c; per doz., 50c; per 100, \$3.50.

MINUET. Wonderfully beautiful clear bright pinkish lavender. 5-6 and some-

COLLECTION A. 3 of each (15 bulbs) of above varieties, postpaid, \$1.00.

COLLECTION B. 6 each (30 bulbs) of above varieties, postpaid, \$1.75.

times 7-9 heavily textured blooms open at once. Heavy foliage and fine grower. The lavender by which all other lavenders are judged. Midseason. Each, 8c; per doz., 80c; per 100, \$5.50.

PICARDY. The wide open flowers, 5 to 6 inches across, are set regularly on a tall spike. Wonderful light pink of excellent petal texture. Each, 15c; per doz., \$1.50; per 100, \$10.00.

SPIRIT OF ST. LOUIS. Large; early; orange-saffron. Very sturdy plant and spike. Admired wherever shown. Each, 7c; per doz., 65c; per 100, \$4.50.

CRIMSON GLOW. A perfect, very large deep scarlet-crimson; flowers on tall, strong spike. Each, 5c; per doz., 30c; per 100, \$2.00.

DR. F. E. BENNETT. An unusual, fiery red, and very large flower. Each, 6c; per doz., 45c; per 100, \$3.00.

GIANT NYMPH. Light pink suffused with cream-yellow; large flowers on strong spikes. Each, 6c; per doz., 45c; per 100, \$3.00.

GOLDEN DREAM. Tall spike of clear yellow blooms. The edge of the petals is gracefully rolled back. Each, 6c; per doz., 40c; per 100, \$2.75.

HALLEY. A delicate salmon-pink with rosy tinge. The lower petals have a creamy blotch with a stripe of bright red through the center. The best of all salmon-pinks. Each 5c; per doz., 30c; per 100, \$2.00.

PEACE. Very large, white, with pale violet feathering on lower petals; flowers correctly placed on a tall, graceful spike. Each, 5c; per doz., 30c; per 100, \$2.00.

W. H. PHIPPS. Ranks next to Picardy as the most popular pink variety. Clear pink blooms overlaid with salmon-rose. Each, 6c; per doz., 45c; per 100, \$3.00.

Per doz., 25c; per 100, \$1.50.

Caladiums - Elephant Ear

A vigorous growing plant which has tremendously large pendulous leaves borne on long, stiff stems. In rich soil, and with an abundance of moisture, assumes very large growth and is most effective either singly on lawns or planted in centers of beds or as background for other blooming plants.

	Each	Doz.
7 to 9 in. circumference...	\$0.07	\$0.75
9 to 11 in. circumference...	.15	1.50
11 to 13 in. circumference...	.20	2.00
MAMMOTH SIZE		
13 to 15 in. circumference...	.30	3.00

Hardy Lilies

Lilies are stately and most beautiful bulbous plants—producing large flowers of exquisite outline and varied coloring. They are hardy even in cold locations with protection, usually surviving for many years. Ideal locations are in the shrubbery or herbaceous border where the roots are sheltered from the hot sun. Groups of 6 or more lilies of a kind, here and there, in such situations are most effective. Large isolated clumps or beds of the varieties Auratum or Rubrum are very beautiful. Plant 6 to 8 inches below the surface in light soils, 4 to 5 inches below in heavy soils; in the latter case bulbs should be surrounded by sand to facilitate drainage.

REGALE LILY. The most popular lily ever introduced. It is absolutely hardy and is excellent for forcing. It has been predicted that this will become the Easter Lily of the future, and being so hardy, may be grown at home. The flowers are white, slightly suffused with pink on the outer edges,

with a beautiful shade of canary-yellow at the center, and extending part way up the trumpet. It is delightfully perfumed, reminding one of Jasmine, and lacking the heavy, oppressive odor of most lilies. Blooms out-of-doors early in July. Thrives in any good soil not too wet. Each, 25c; per doz., \$2.50. Extra Large Bulbs, each, 35c; per doz., \$3.50.

AURATUM (Gold Banded Japan Lily). A magnificent sort producing large broad creamy white flowers spotted with maroon and having a broad band of gold extending the length of each petal. Large size bulbs. Each, 25c; per doz., \$2.50.

SPECIOSUM RUBRUM. A magnificent sort. Color bluish-white with dark maroon spots. Very effective and handsome. Each, 35c; per doz., \$3.50.

Madeira Vines - Mexican Potato

A rapid-growing vine with bright, smooth leaves which produce intense shade and valuable for covering fences, outbuildings, or screening porches. Plant the roots 2 inches deep. Vines should be trailed on strings or poles. Strong roots. Each, 5c; per doz., 40c; per 100, \$3.00.

Tuberoses

Well-known summer flower, having a very sweet scent. Bulbs may be planted outside from April to June.

EXCELSIOR DWARF PEARL. The best of all double Tuberoses, producing very large finely formed flowers. First size bulbs, each, 7c; per doz., 60c; per 100, \$4.00.

Hardy Shrubs

We do not guarantee or replace plants, shrubs or trees, at prices quoted.

These shrubs, all shedding their foliage in the winter, are quite hardy, and will thrive in practically all sections. They make a rapid and luxuriant growth. Many varieties are used in foundation plantings, and others are desirable for flowers and berries.

Althea (Rose of Sharon)

Has a characteristic upright habit useful in formal work. Plant in spring as it grows until late autumn. Flowers in August. 2-3 ft. Each, 35c; 3 for \$1.00.

Butterfly Bush (Buddleia)

SUMMER LILAC. Semi-herbaceous plant, dying down to the ground each year. Rich lavender spikes of flowers. Will bloom from June to September. Each, 35c; 3 for \$1.00.

Cydonia

(Flowering Quince or Firebush)

JAPAN (C. japonica). Common garden form, growing from 3 to 6 feet with spreading, spiny branches. The scarlet-red flowers appear before the leaves and are followed by globular fruits from 1½ to 2 inches. Height 18 to 24 in. Each, 35c; 3 for \$1.00.

Deutzia

PRIDE OF ROCHESTER. Showy, early, large flowering sort; blossoms in May before others. Grows 6 to 8 feet high. White flowers, large and double. 18 to 24 inches. Each, 35c; 3 for \$1.00.

Golden Bell - Forsythia

FORTUNE'S. Grows with upright or arching branches. 2 to 3 ft. Each, 35c; 3 for \$1.00.

SPECTABILIS. Strong grower. Showiest of all Forsythias. Of extremely dense flowering habit. Every branch covered with striking yellow flowers before foliage appears. 2 to 3 feet. Each, 35c; 3 for \$1.00.

Hydrangea

ARBORESCENS GRANDIFLORA (Hills of Snow). During July and August large white flowers are borne in large bunches. Prune severely for best results. Useful in shade. 18-24 in. Each, 35c; 3 for \$1.00.

PANICULATA GRANDIFLORA. Almost everyone knows the great heads of white flowers that gradually turn pink when cut and dried for decoration. 18-24 in. Each, 35c; 3 for \$1.00.

Kolkwitzia - Beauty Bush

Shrub, growing from 6 to 8 feet tall, the whole plant forming a dome-shaped mass. The flowers are produced along the whole length of the branches in clusters at the ends of short, leafy shoots. Flowers pink. 15 to 18 in. Each, 35c; 3 for \$1.00.

Lilac - Syringa

Old-Fashioned Fragrant Flower

PERSICA. Wiry bush 8-10 ft. Fragrant, light purple flowers, large loose clusters. Each, 35c; 3 for \$1.00.

VILLOSA. Tree-like shrub, 12 ft. Pale, pinkish flowers in June. 2-3 ft. Each, 45c.

FRENCH HYBRID LILACS. Very hardy, easily grown. Graceful plants and very fragrant. Mixed varieties. Splendid varieties on their own roots. 18-24 inches. Each, 35c; 3 for \$1.00.

VULGARIS. The common purple lilac which everybody knows. Each, 35c; 3 for \$1.00.

VULGARIS ALBA. This is the old-fashioned white Lilac. 35c each; 3 for \$1.00.

Honeysuckle - Lonicera

TARTARIAN (L. tatarica alba). This is one of the old-time favorite shrubs. Ten feet in height and extremely easy to grow. 18 to 24 inches. Each, 35c; 3 for \$1.00.

Philadelphus

PHILADELPHUS, VIRGINAL. Blooms throughout the season. This is a new and wonderful addition to the Mock Orange family but is far beyond anything in this line that has been brought out. Without question one of the most beautiful shrubs grown. 2 to 3 ft. Each, 35c; 3 for \$1.00.

Pussy Willow

PUSSY WILLOW (Not the Wild Pussy Willow). Dainty silvery flowers every winter. A beautiful round shrub in summer. Wherever you have room for a Lilac or Snowball, you have room for a Pussy Willow. Use them for tall screens or backgrounds. Cut the ends of the branches in January or February. Place them indoors in a vase of water. Watch them unfold their large catkins of silvery pink, from 1 to 2 inches long. Price, 2 to 3 ft., each, 35c; 3 for \$1.00.

Snowberry

SYMPHORICARPOS (White Snowberry). Hardy shrub from two to three feet high, excellent for massing in the lower parts of a bed or border. Rose-colored flowers appear in July and August. The white wax-like berries remain on until late in the autumn. 2 to 3 ft. Each, 35c; 3 for \$1.00.

SNOWBERRY, RED. Slender arching shrub, very showy in autumn when covered with bunches of bright, coral-pink, small fruits which hang on nearly all winter. 2 to 3 ft. Each, 35c; 3 for \$1.00.

Spirea - The Most Popular Shrub

ANTHONY WATERER. Bright pink. June and July. A compact low-growing shrub with dense foliage. Flowers are borne in full flat clusters on erect stems. Very valuable for edging in front of shrubbery or as a dwarf hedge. 12 to 18 in. Each, 35c; 3 for \$1.00.

SPIREA YAN HOUTTEI. White. May. This is the most useful of the hardy shrubs. The flowers are in flat clusters usually an inch or more across, produced by spreading, pendulous branches often drooping to the ground. 2 to 3 ft. Each, 35c; 3 for \$1.00.

Weigelas

ROSEA. A choice, vigorous sort, which yields an immense crop of deep pink trumpet-like flowers in June, and bears a scattering of blossoms through the rest of the season. 2 to 3 ft. Each, 35c; 3 for \$1.00.

EVA RATHKE. The flowers are a deep carmine-red, erect growing. A most profuse bloomer in spring and again in autumn. 18 to 24 in. Each, 35c; 3 for \$1.00.

Hardy Vines

Clematis

PANICULATA. Extremely showy when covered with small, white, fragrant flowers which appear late in the season. Beautiful, shiny green foliage. Each, 50c.

JACKMANI. One of the best known of all the Clematis. The velvety purple flowers, when expanded, are 4 to 6 inches across, very velvety and distinctly veined. We send out strong, healthy roots of Clematis and cannot entertain any claims for non-success with these plants. Each, 75c.

Honeysuckle - Lonicera

HALL'S JAPAN EVERGREEN HONEYSUCKLE. Honeysuckles are well adapted for the covering of walls, arbors, etc. Leaves remain on during the winter. The flowers are white, turning to yellow; very fragrant. Each, 25c.

Wisteria

CHINESE WISTERIA (W. sinensis). Will bloom the first year. Has pale green leaves and bears profusely in dense, drooping clusters; purplish, pea-shaped flowers. Blooms in May. Each, 50c.

Hedge Plants

CALIFORNIA PRIVET. Free growth and succeeds under adverse conditions; good in south. Foliage is nearly evergreen, remaining on the plant until mid-winter. Nice plants, 12-18 inch, 25 for \$1.50; 100 for \$4.00. 18-24 inch, 25 for \$1.75; 100 for \$6.25.

JAPANESE BARBERRY (Berberis Thunbergi). One of the best hedge plants in existence. Beautiful throughout the year; abundant crop of bright red berries in winter. Compact growth and thorny branches make a defensive hedge that will turn cattle after five years growth. Poor soil is no barrier. 15-18 inch, 12 for \$2.00; 100 for \$12.00. Can also furnish seedlings. 12-15 inch, 25 for \$2.00; 100 for \$6.50.

RED-LEAVED BARBERRY. Finest shrub in recent years. Bright red in the spring, stays red through the summer and deepens to a deep crimson in the fall. Red berries stay on all winter. Unequalled for bright coloring. All that is required to develop its brilliant coloring at all seasons is that it be planted in full exposure to the sun. 15 to 18 inch, each, 25c; 5 for \$1.00.

Ornamental and Shade

Trees

Ash

EUROPEAN MOUNTAIN (Sorbus aucuparia). An ornamental deciduous tree with beautiful foliage which turns orange-red in fall; fruits showy, often remaining all winter. 6 to 8 feet. Each, \$1.00.

Catalpa Bungei

UMBRELLA TREE. A broad, dome-shaped head at the top of a long straight stem. When the tree attains its full growth the top is often 15 feet in diameter and not over 3 to 4 feet tall on top of a strong stem from 5 to 7 feet in height. An exceptionally hardy variety. 5 to 7 feet, 1-year heads. Each, 75c.

Cercis

AMERICAN REDBUD. Exceedingly showy small tree in early spring when covered with small bright cerise flowers. Makes brilliant effect. 4 to 5 ft. Each, 75c.

Elms - Ulmus

AMERICAN (U. americana). Very valuable for park planting, for avenues and as a shade tree for lawns. One of the most majestic and graceful of our shade trees. Hardy, a rapid grower, resists drought well, long lived. 6 to 8 ft. Each, \$1.00.

PUMILA. A new variety of Elm. A native of China. Rapid growing tree, forming a very dense head, with smaller, darker leaves than the American Elm. 6 to 8 ft. Each, \$1.25.

Sycamore

SYCAMORE. The well-known Oriental Plane Tree. Used in great numbers to create vistas of dense green shade along new streets which require quick development of shade and ornamentation. A lofty, wide-spreading tree with deeply lobed leaves; valuable for its handsome foliage, hardiness and free growth. 6 to 8 ft., \$1.00; 8 to 10 ft., \$1.50.

Oak - Quercus

RED OAK. 80 to 100 feet tall, unusually large in leaf and quick in growth. The young shoots and leaf-stems are red, the foliage purplish crimson in autumn. Price: 6 to 8 ft., \$1.75; 8 to 10 ft., \$2.25.

Poplar

LOMBARDY (Populus nigra var. Italica). The Lombardy Poplar becomes one of the most striking and picturesque trees, particularly when some of the sprouts are allowed to grow about the old stock. 6 to 8 ft. Each, 50c.

Rose Tree of China

THE ROSE TREE OF CHINA (Prunus triloba). Is the most beautiful and showy of all small trees. Blooms before the leaves appear in the spring, with double rose-like pink flowers. As an ornament from early spring until late fall it has few equals. 2 to 3 ft. Each, 75c.

Weeping Willow

GOLDEN WEEPING (Salix elegantissima). A strong and the most vigorous grower of all the weeping willows. For planting in low places or on the banks of streams, springs, lakes or ponds, making a very beautiful effect. 6-8 ft. Each, \$1.00.

Maple

SILVER (A. saccharinum). Best known of all Maples. Wide, slender spreading branches. Thrives almost anywhere. 6 to 8 ft. Each, \$1.00.

NORWAY (A. platanoides). Large, handsome tree with a compact rounded head. One of the best and most beautiful trees for the street, the park, cemetery, or lawn planting. 6 to 8 ft. Each, \$1.25.

BLOOD-RED JAPANESE (A. palmatum atropurpureum). A small tree or shrub, valued for its blood-red leaves and bright red branches, of dense growing habit. The delicate leaves are very showy and are fine as specimens, or can be used with evergreen plantings to good advantage. Dug with ball of earth and burlapped. Price: 15 to 18 in. plants, each \$1.50.

Waterlilies and Aquatic Plants

You have never known all the delights of a garden, if you have never known the real pleasure that comes from a pool of Waterlilies. Hardy Waterlilies thrive in pools and small ponds, no trouble to care for them. A box one foot square and one foot deep is as small as you can have for the plants to do well. The soil for Waterlilies is preferably a mixture of two-thirds rich garden soil and one-third well-rotted cattle manure. Most Waterlilies thrive at any depth from 4 to 30 inches.

PINK VARIETIES

TUBEROSA ROSEA. A delightful shade of pink. Strong, vigorous grower. Each, 50c.

EUGENIA DE LAND. Deep rose-pink; narrow petals. Each, \$1.25.

PINK OPAL. The flowers are very deep pink. One of the best pink varieties. Each, \$1.00.

YELLOW VARIETIES

MARLIACEA CHROMATELLA. Color of the bloom is bright yellow; leaves green mottled brown. Each, \$1.00.

CHRYSANTHA. The color is orange-yellow, deepening on the third day to rich reddish brown. Each, \$1.00.

INDIANA. A very fine copper-colored Lily. Should be in every water garden. Each, \$1.00.

WHITE VARIETIES

MARLIACEA ALBIDA. This is one of the steadiest of bloomers. White with yellow stamens. Each, \$1.00.

GLADSTONE. The best of all white Lilles. Each, \$1.50.

RED VARIETIES

CARMINE LAYDEKER. Pleasing rose-colored flowers. Rapid grower. Each, \$1.00.

GLORIOSA. The king of the red Waterlilies. It just blooms and blooms. Each, \$2.00.

Submerged Plants

These plants are to be rooted in soil in shallow water or in the lily boxes. Collection of 10 plants \$1.00

Floating Plants

These plants float on the water and consist of a collection of Hyacinths, Shell Flower, Parrot Feather, Water Fern. 10 plants \$1.00

SPRAY CALENDAR

	Spray No. 1	Spray No. 2	Spray No. 3	Spray No. 4
PEACH	(Dormant Spray). Apply in fall after leaves fall or in spring before buds open. Apply Lime-Sulphur or Scalecide. Controls leaf curl and San Jose scale and some aphid. For peach tree borers use Paradichlorobenzene.	Ten days after the petals fall or when the blossom husks are shedding. Apply Arsenate of Lead. Controls rot, scab and curculio.	Two or three weeks later than No. 2. Use same materials as No. 2. Controls curculio, pustular spot, scab and rot.	
CHERRY	(Dormant Spray). Use Lime-Sulphur on sweet cherries only. Controls San Jose scale.	(Preblossom Spray). Apply Lime-Sulphur, 2 tablespoonfuls to 1 gal. water. Controls rot and curculio.	Just after blossoms fall. Apply Lime-Sulphur as in No. 2 and Arsenate of Lead. Controls leaf spot, rot and curculio.	Two weeks after No. 3. Use Lime-Sulphur 1-40 plus Arsenate of Lead. Controls rot, curculio, leaf spot and mildew.
QUINCE	Same as apple.	Same as apple.		
APPLE	(Dormant Spray). Use Lime-Sulphur or Scalecide in fall or spring to control scale. Add Black Leaf 40 to Lime-Sulphur for the delayed dormant spray to control aphid. (Do not use Scalecide in the delayed dormant). Scalecide kills the eggs of leaf roller and red mite.	(Preblossom Spray). When pink shows in cluster buds before blossoms separate. Apply Lime-Sulphur, Bordeaux with Arsenate of Lead (add Black Leaf 40 if aphid are present). Controls apple scab, curculio, canker worm and aphid.	(Calyx Cup Spray). Just after petals fall, before calyx closes. Apply Lime-Sulphur with Arsenate of Lead (add Black Leaf 40 if aphid are present). Controls apple scale, sooty fungus, curculio, codling moth and canker worm.	Fourteen days after petals fall. Apply Lime-Sulphur or Bordeaux and Arsenate of Lead. Controls scab, apple blotch, codling moth and canker worm. (Bordeaux may cause burning).
PEAR	Same as apple. Scalecide applied in the fall or early spring controls pear psylla.	Same as apple.	Same as apple.	
PLUM	(Dormant Spray). Apply in fall after leaves fall or in spring before buds open. Apply Lime-Sulphur or Scalecide. Controls San Jose scale and some aphid eggs.	When buds are swelling. Apply Lime-Sulphur as in cherry. Controls rot.	(European varieties). After calyx drops. Apply Arsenate of Lead.	(European varieties). Repeat No. 3 two weeks later.
GRAPE	Just before the blossoms open. Apply Bordeaux. Controls mildew and black rot.	Just after fruit sets, repeat No. 1. Controls black rot and mildew.	Two weeks later. Apply Bordeaux and Arsenate of Lead.	July 15 to 30. Use Bordeaux and Arsenate with soap as spreader. Add Black Leaf 40. Apply with plenty of pressure and to under sides of the leaves. Controls berry worm and fungous diseases.
CURRENT AND GOOSEBERRY ...	(Dormant Spray). Apply Lime-Sulphur or Scalecide. Controls San Jose scale, scurfy scale and oyster shell scale.	When the leaves are unfolding. Use Bordeaux. Controls leaf spot and mildew.	After fruit is set, apply Bordeaux and Arsenate of Lead. Controls leaf spot, mildew and currant worm. If aphid are present use Black Leaf 40.	Whenever currant worms appear. Dust with Arsenate of Lead and Hydrated Lime. Controls mildew and currant worm.
RASPBERRY AND BLACKBERRY ...	(Dormant Spray). If bushes are infested with scale. Apply Lime Sulphur or Scalecide. Controls rose scale and San Jose scale.	When buds are swelling. Apply Arsenate of Lead. Controls beetle.	While blossoms are open. Apply Arsenate of Lead. Controls beetle, which attacks bloom.	When young canes are six inches high. Spray with Bordeaux. Controls anthracnose on young cane.
STRAWBERRY	When leaves are half grown, before blooming. Apply Bordeaux for leaf spot.	One week later. Apply Spray No. 1 on young plants. Omit the spray on old plants. Controls leaf spot.	Last of May to first of June. Apply Hellebore for leaf rollers and slugs.	After fruit is picked. Mow the vines close to the ground, rake off tops and burn. Spray new tops with Bordeaux. Controls mildew and fungous diseases.

Fruit Trees, Grape Vines, and Small Fruits

Peach

Height	Each	3 Trees	10 Trees
3-4 feet	\$0.50	\$1.40	\$4.35
4-6 feet	.65	1.80	5.50
GOLDEN JUBILEE PEACH.	New, early freestone, highly colored. Good shipper.		
BIG RED.	New, freestone, very good.		
ELBERTA.	High colored yellow freestone. One of the best. Most planted.		
J. H. HALE.	Larger and earlier than Elberta. Splendid commercial peach.		
SOUTH HAVEN.	Early yellow freestone. Very good.		

Apples

Height	Each	3 Trees	10 Trees
3-4 feet	\$0.75	\$2.10	\$6.75
4-6 feet	.90	2.50	7.75
YELLOW TRANSPARENT.	Summer. Clear white, turning pale yellow.		
JONATHAN.	Early winter. Red, smooth, fine quality. Good keeper.		
GRIMES GOLDEN.	Early winter. Bright yellow, pink cheek, highest quality.		
DELICIOUS.	Early winter. Large, brilliant dark red, splendid shipper.		
STAYMAN'S WINESAP.	Early. Very productive; skin greenish purple; flesh yellow, firm, juicy.		
ROME BEAUTY.	Early winter. Good keeper, mottled and striped in shades of red.		
GALLIA BEAUTY.	Best of Red Rome Beauty sports, bright red, superior quality.		
WINESAP.	Large winter. Dark red, juicy, good commercial.		
TRANSCENDENT CRAB.	Brownish yellow with blush of carmine. crisp, firm.		

Cherry

Height	Each	3 Trees	10 Trees
3-4 feet	\$0.60	\$1.65	\$5.25
4-6 feet	.70	1.90	6.00
EARLY RICHMOND.	Old favorite, very hardy, sour, good for cooking.		
MONTMORENCY.	Larger than Early Richmond, later, best for shipping.		
BRASSINGTON.	Earlier than Montmorency, very productive, mild, good size.		
GOV. WOOD.	Sweet, pinkish yellow, flesh soft, early, regular crops.		
YELLOW SPANISH.	Sweet, yellow, flesh firm, best and most popular sweet.		

Plum

Height	Each	3 Trees	10 Trees
3-4 feet	\$0.70	\$2.00	\$6.25
4-5 feet	.85	2.30	7.25
ABUNDANCE.	One of the best Japanese plums, bears young; rich, bright red with light yellow flesh, excellent quality.		
BURBANK.	Tree round, sprawling, productive; bears young. Fruit round, cherry-red with lilac bloom.		

Hardy Apricot

A real heady Apricot. Imported from Hungary a few years ago. Comes into bearing very young and seldom misses a crop. Quality of fruit is excellent, and it is good sized. Beautiful in bloom and when tree is in fruit. Now offered for the first time. 3-4 feet. Each, 80c.

Pear

Height	Each	3 Trees	10 Trees
3-4 feet	\$0.70	\$2.00	\$6.25
4-5 feet	.85	2.30	7.25
BARTLETT.	Large, early, yellow, with blush next to sun, juicy, very popular.		
CLAPP'S FAVORITE.	Large, fine, pale yellow with brown dots, fine texture.		
ANJOU.	Large, very productive, late.		

Quince

3-4 feet. Each, 80c; 2 for \$1.50.
ORANGE. Large, round, bright golden yellow. Excellent flavor. Abundant bearer, good for market. Best late variety.
CHAMPION. Bears early. Fruit is large, oval, rich color and excellent quality. Ripens late and keeps well.

Asparagus Roots

(See page 3).

DISTANCES FOR PLANTING. Apples, 30 to 40 ft. Pears, 18 to 20 feet. Quinces, 10 to 12 ft. Peaches, 16 to 18 ft. Cherries, sweet, 18 to 20 ft. Cherries, sour, 15 to 18 ft. Plums, 16 to 20 ft.

ALL PRICES IN THIS CATALOG SUBJECT TO CHANGE WITHOUT NOTICE. WE DO NOT GUARANTEE OR RE-PLACE PLANTS, SHRUBS OR TREES, AT PRICES QUOTED.

Grape Vines

ALL TWO-YEAR-OLD SELECTED STOCK
 2-year-old varieties: Each, 20c; 5, 90c; 10, \$1.75;
 25, \$4.00; 100, \$14.50, except where noted.

Write for Special Prices on 1,000 lots.

CONCORD. Large, black grape, hardy and productive; juicy and sweet.

WORDEN. A black grape that resembles Concord, but of higher quality and ripens a week to ten days earlier.

CATAWBA. Berries large, round, when ripe a dark copper color; sweet, rich, musky flavor.

DELAWARE. Small, light red, thin skin, very juicy, sweet, fine flavor.

NIAGARA. Vine remarkably hardy and strong grower; bunches very large and compact; berries large, greenish white, slightly ambered in the sun; skin thin but tough.

NEW GRAPE CACO. The vines are strong and vigorous. The fruit is very large; in color a rich wine red over amber. Early bearing, usually showing several good sized bunches the second year. Its flavor is luscious, sweet, delightful, distinctive. Price, 40c each; 3 for \$1.00.

Raspberries

25 for \$1.35; 100 for \$4.00.

CUMBERLAND RASPBERRY. The largest of all blackcaps; firm and a good shipper, and one of the most profitable in market.

LATHAM. Splendid strong growing kind, produces immense quantities of bright red extra large berries.

CHIEF. New variety. Ripens earlier than Latham, greater hardiness, more disease-resistant, bears more abundantly. Fruit bright red, somewhat smaller than Latham. One of the most profitable.

ST. REGIS. Fruit commences to ripen with the earliest and continuing on young canes until October, many quarts often being picked after the first snowfall. Berries bright crimson, large size, rich, sugary, with full raspberry flavor. Flesh firm and meaty, a good shipper. Wonderfully prolific. Canes stocky, of strong growth, with abundance of dark green leathery foliage.

Blackberries

25 for \$1.35; 100 for \$4.00.

ELDORADO. Comparatively new variety, and has proven to be the best of all blackberries under cultivation. Very hardy. Fruit very large, jet black, good shipper, good quality, great producer.

Dewberry

25 for \$1.35; 100 for \$4.00.

LUCRETIA DEWBERRY. Hardy, productive, best variety, sweet. Highly recommended.

Currants

25c each; \$2.00 per dozen.

CHERRY. Fruit large, bunch small, deep red, acid.

POMONA. Bright red, extra fine quality and enormously productive; strong, vigorous grower.

Gooseberries

25c each; \$2.00 per dozen.

DOWNING. Very large and fine quality.

★ **NOTE**—Due to Federal Quarantine No. 63, we do not accept orders for Currants or Gooseberries to be shipped or delivered out of the State of Ohio.

Strawberries

25 plants, 50 cents; 100 plants, \$1.25.

1000 plants of any one variety, \$7.50.

SENATOR DUNLAP. The demand for this variety has increasing steadily, as it has an unusually long fruiting season. It bears immense quantities of large, handsome, rich, fine flavored, dark red berries.

PREMIER. Also called Howard, is a little lighter than Dunlap, of large size and good quality. Plants healthy, vigorous, productive, and have a long bearing season. It is frost-resistant in both bud and blossom.

LADY CORNEILLE. This wonderful Strawberry has more good qualities than ever before combined in any one berry. It is the healthiest, thirstiest, best growing plant with clean foliage, absolutely free of rust or leaf spot; plants large, strong, with large roots that grow deep in the ground. Thrives in both clay and loamy soil. Ripens same time as Senator Dunlap. Berries large, rich, glossy red, and of the best quality.

AROMA. One of the finest for long distance shipping. The large berries are bright red to the center. Of conical shape, with prominent yellow seeds that help to make them very attractive on market. The Aroma has three outstanding points: its large size, its very bright color, and the very fragrant aroma.

FALL OR EVERBEARING STRAWBERRIES

MASTODON. The Mastodon, which is a recent introduction, is a fall-bearing variety of great promise. Should give excellent results where water can be applied during dry weather and where special attention can be given to the plants. Per doz., 50c; per 100, \$2.50.

Distances for Planting. Grapes, rows 10 to 16 feet apart, 7 to 10 feet in rows. Blackberries, 5 to 7 feet apart, 3 to 5 feet in rows. Currants, 4 feet apart each way. Gooseberries, 4 feet apart each way. Raspberries, rows 5 feet apart, 3 feet in rows. Strawberries, for garden culture, plant in beds 4 feet wide, 3 rows in each bed, plant 1 foot apart in rows.

Recleaned Bird Seed, Pet Supplies, Bird Houses, Etc.

CANARY SEED. Recleaned and of splendid quality. Postage extra. Per lb., 15c; 2 lbs., 25c.

CANARY SEED, MIXED. A mixture of the finest quality and in proper proportions. Postage extra. Per lb., 15c; 2 lbs., 25c.

CUTTLE FISH BONE. Good for digestion and general health. Postage extra. Each 5c; per 1/4 lb., 25c; per lb., 75c.

HEMP SEED. Birds are very fond of this seed; it is rich and should be fed with discretion. Postage extra. Per lb., 15c; 2 lbs., 25c.

LETTUCE SEED. A slight sprinkle of this is much relished by canaries. Postage extra. Per lb., 35c.

MAW SEED. Calculated to improve the song of canaries, etc. Postage extra. 1/4 lb., 10c; lb., 25c.

MILLET SEED. Nutritious and appetizing. Postage extra. Lb., 15c; 2 lbs., 25c.

RAPE SEED. Will keep birds in excellent condition; feed with canary seed. Postage extra. Lb., 10c; 3 lbs., 35c.

SUNFLOWER SEED. We are large handlers of this important food for parrots. We turn out only a very choice article. Postage extra. Per lb., 15c; 2 lbs., 25c.

PRICES ON BIRD SEED IN LARGER QUANTITIES QUOTED ON APPLICATION.

BIRD GRAVEL. Silver, fine. (By mail, add 7c per pkg.) Pkg., 10c.

BIRD PEP. Keeps canary birds in prime condition and prevents loss of song. Easily attached to cage. Pkt., 10c.

BURNETT'S FOOD. Will give immediate relief from the effects of moulting, eradicates all impurities from the blood, and restores to the songster, a strong and clear voice. Per bottle, 20c; by mail, 25c.

BURNETT'S LIGHTNING SONG RESTORER. Makes birds bright and active and is especially recommended in feeding over-fed or run-down birds. Per bottle, 20c; by mail, 25c.

BURNETT'S LOUSE POWDER. An effective remedy to be dusted on all kinds of birds. Per can, 25c; by mail, 30c.

BURNETT'S LIQUID TONIC. For birds. Per bottle, 25c.

BURNETT'S BIRD WASH. Per bottle, 25c.

Bird Sundries

CANARY NESTS. A wire basket well made. Each, 10c.

BIRD NESTING. Per pkg., 10c.

BIRD BATHS. Made of opal glass. Each, 15c.

SEED CUPS. Made of opal glass. Each, 10c.

DRINKING CUPS. Made of opal glass. Each, 10c.

EGG FOOD AND TONIC CUPS. Each, 5c.

Fish Food and Supplies

FISH FOOD. Especially put up for fish in aquariums and globes and should be fed regularly. We can supply it in wafer or natural form. Per box., 10c; by mail, 15c.

TROPICAL FISH FOOD. Per box, 15c.

NATURAL FISH FOOD. In bulk. 1/4 lb., 20c; 1 lb., 60c.

BURNETT'S GLANDEX. A new glandular food for Tropical Fish. A complete food that has every element necessary to produce normal growth and bring out the natural colors. Eliminates the necessity for live food. 3/4-oz. tins, each, 20c.

PEARL CHIPS. Postage extra. Per lb., 10c; 3 lbs., 25c.

COLORED CHIPS. Beautifully colored, many shades. Postage extra. Per lb., 15c; 2 lbs., 25c.

SPRATT'S CAT FOOD. Used at the leading catteries and the ever-increasing demand is the best proof of its value. Per box, 30c.

Toys for Pets

CATNIP MOUSE. Each, 15c.

NEW CATNIP TOY. With ball and catnip. Each, 25c.

RUBBER BALLS for dogs. Each, 15c.

RUBBER DOG HEADS. Each, 25c.

RUBBER BONES. Each, 25c.

RUBBER MICE. Each, 10c, 15c, and 20c.

WILD BIRD FEED. A mixture of grain and seed for wild birds. 5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.50; 100 lbs., \$5.00.

TWO-IN-ONE HANGING BIRD FEEDER. Feeder in winter, wren house in summer. Will hook over limb of tree. Raise roof to fill. Holds two quarts. Price, \$1.94.

Fleischmann's Irradiated Dry Yeast

Give your dog a better chance to enjoy life. Start now to feed him Fleischmann's Irradiated Dry Yeast for Dogs, rich in vitamins B, D, and G.

Increases pep and general vitality. Stimulates the appetite and aids digestion. Not a medicine but a natural food supplement which should be given to all dogs regularly. Produces a finer and heavier coat—builds stronger bones and muscles—prevents and cures rickets—develops sturdier puppies.

Just mix right in with their other food.

3 1/2-oz. can, 25c; 8-oz., 50c; 1-lb. can, 85c; 5-lb. can, \$3.50.

MILLER'S DOG FOODS

Nationally Famous

"Battle Creek Health Foods for Dogs"

The use of Miller's Dog Foods solves complex feeding problems. Keep your dog healthy and happy by feeding a balanced diet. Satisfaction is guaranteed or money refunded.

Miller's Ration

A granular cereal and meat food that can be fed to all dogs of all ages. Ration is a wonderful base feeding, fed either alone or with other foods.

1 lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.75; 100 lbs., \$6.00.

Meaties (Cubes)

Ingredients same as Miller's Ration. 3 lbs. 25c; 10 lbs., 75c; 25 lbs., \$1.75; 100 lbs., \$6.50.

Miller's Biscuits

Crisp appetizing biscuits composed of cereals, meats, cod-liver oil and other ingredients. Provide exercise for the teeth and supply rich nourishment.

2 lbs., 25c; 5 lbs., 60c; 10 lbs., \$1.10; 25 lbs., \$2.50; 100 lbs., \$9.00.

Miller's Kibbles and Puppy Meal

Kibbles for grown dogs and Puppy Meal for pups insures properly balanced diet. Can be fed alone or mixed with other things. Dogs love their fine flavor.

2 lbs., 25c; 5 lbs., 60c; 10 lbs., \$1.15; 25 lbs., \$2.75; 100 lbs., \$9.50.

Miller's Conditioner

A combination of minerals and vitamin bearing foods that benefits the appetite, coat and general health. Fed in small amounts mixed with regular feed.

4-oz. can, 50c; 8-oz. can, 75c; 16-oz. can, \$1.25.

Miller's Dog Soap

A pleasantly scented mild soap that is guaranteed to kill fleas and mites. This soap leaves your dog with a pleasant odor instead of a medicine smell. Per bar, 25c.

SPRATT'S DOG FOODS

SPRATT'S DOG CAKES. In large cake form for older dogs. 1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.20; 25 lbs., \$2.90; 100 lbs., \$11.00.

SPRATT'S OVALS. The pocket dog biscuit; for all breeds. 1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.20; 25 lbs., \$2.90; 100 lbs., \$11.00.

SPRATT'S FIBO. A granulated food with yolk of egg for shy feeders. 1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.25.

SPRATT'S WEETMEET. A granulated food for puppies from weaning and for brood bitches, bulldogs and dainty feeders. 1 lb., 15c; 2 lbs., 25c; 10 lbs., \$1.25; 25 lbs., \$3.00; 100 lbs., \$11.50.

Sportsman Canned Dog Food

An ideal balanced meat cereal for dogs or cats. Thoroughly cooked and ready to feed either alone or when mixed with dog cakes. Convenient to store or carry and a handy food to have around the house for emergencies. Packed in cans containing 16 ozs. Per can, 10c; per doz. cans, \$1.10; case of 48 cans, \$4.25.

Dog Medicines

SPRATT'S CAPSULES for Ascarids and Large Round Worms in Dogs. Pkg., 50c.

SPRATT'S CAPSULES for Ascarids and Large Round Worms in Puppies and Toy Dogs. Pkg., 50c.

SPRATT'S TAPE WORM TABLETS Pkg., 50c.

SPRATT'S DRY CLEANER. Pkg., 30c.

SPRATT'S CHALK BLOCK. Pkg., 25c.

RIGHT-O. Roundworm Capsules. Pkg., 25c.

PULVEX. Kills Fleas and Lice. 2-oz. tin, 50c; 12-oz. tin, \$1.25.

PULVEX DRY CLEANER. Pkg., 50c.

KUR-MAIGE. Sarcoptic Mange Dressing. 3-oz. tin, 75c.

PULVEX WORM CAPSULES. Pkg., 75c.

CEDAR KENNEL BEDDING. Keep your dog free from fleas.

5-lb. bag, 25c; large bag, about 50 lbs., \$1.75.

BEE BRAND SHAMPOO. Kills fleas on dogs, cats. Pkg., 30c.

MILLER'S A-1 DOG SOAP. 25c.

DOG FEEDING BOWLS. Each, 35c.

HIGH-JENE ODORLESS DRY CLEANER AND FLEA POWDER. 25c.

Insecticides and Fungicides

PARCEL POST. All insecticides may now be delivered by Parcel Post and we will so complete your order providing sufficient postage is remitted.

ANTROL. An effective control for the honey-dew loving species of ants. Antrol ready-filled set containing 4 filled feeders. 40c; Regular set of 4 containers and 4 ounces of Syrup, 75c; Antrol Syrup, 4 ounces, 35c; pint, 85c.

ANTROL ANT POWDER. Kills ants, roaches, silverfish. 2 ozs., 25c; 4 ozs., 40c.

ARSENATE OF LEAD. The standard insecticide for the control of chewing insects. 1/2 lb., 20c; lb., 30c; 4 lbs., 75c; 12 lbs., \$2.15.

BLACK LEAF 40. A concentrated nicotine solution for aphid, thrips, and red spider. Oz., 35c; 5 ozs., \$1.00; lb., \$2.25; 2 lbs., \$3.25; 5 lbs., \$5.85; 10 lbs., \$10.60.

BORDEAUX MIXTURE. The recognized preventive for most fungus diseases. Lb., 30c; 4 lbs., 75c; 12 lbs., \$2.15.

CALCIUM ARSENATE (Dry). For control of certain chewing insects on potatoes, tomatoes, cabbage, and most other vegetables. 1 lb., 25c; 4 lbs., 50c.

CYANOGAS. "Calcium Cyanide". Grade A, for the destruction of ground moles, wood chucks, rats, and other rodents. 1/2 lb., 45c; lb., 75c; 5 lbs., \$3.00.

Cyanogas "Grade G". For greenhouse fumigation. 5 lbs., \$3.00; 25 lbs., \$10.00; 100 lb. drum, \$30.00.

Cyanogas Kills Ants 4 ozs., 30c.

DERRAX—Kills 2 Ways. A powder containing two deadly ingredients—one kills instantly; the other acts more slowly—retaining its killing action for several days. Kills Ants, Roaches, Bed-bugs, and Plant Lice. Harmless to children or pets. 2 1/2-oz. sifter top can, 35c.

DOGGOFF. Efficient animal repellent. Garden size bottle, 50c.

DUTOX (Barium Fluosilicate). A safe and efficient material that may be either sprayed or dusted for the control of the Mexican Bean beetle, Potato beetle, Cucumber beetle, etc., without danger of burning. Lb., 35c; 6 lbs., 1.50.

NEW EVER GREEN. A non-poisonous pyrethrum insecticide that destroys a great number of both chewing and sucking insects. Does not require a spreader. Oz., bottle, 35c; 6-oz. bottle, \$1.00; 16-oz. bottle, \$2.00; gal., \$11.00; 5 gals., \$45.00.

FISH OIL SOAP. One of the best and safest remedies for sucking insects and plant lice on vegetables, ferns, shrubs and trees. It is also effective for preventing and destroying borers in trees when used as a wash. 1 lb., 25c; 5 lbs., \$1.10.

FLORAGARD ROSE DUST. An efficient preventative for black spot, brown canker, mildew and a control for most leaf-eating insects. 1 lb., 40c; 5 lbs., \$1.50

FUNGTROGEN. A most effective control for Mildew, Black Spot, and other fungus diseases of Roses. Will not discolor the foliage. Half pint, 75c; 1 pt., \$1.25; qt., \$2.00; gal., \$6.00.

GRAFTING WAX. 1/2 lb., 40c; 1 lb., 60c. By mail, add 7c.

GRAPE AND ROSE DUST. Powder. An effective preventive for mildew and other fungus diseases in the garden or greenhouse. Lb., 40c; 5 lbs., \$1.50.

LIME AND SULPHUR (Dry). Mixes with water. A standard lime and sulphur converted into a dry powder but having all the effectiveness of the liquid product when dissolved in water. For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, blotch, red spider and mite. 1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.25; 25 lbs., \$4.00.

MAGNESIUM ARSENATE DUST MIXTURE For control of Mexican Bean beetle. Per lb., 35c; 4 lbs., 75c; 12 lbs., \$2.25.

NAPHTHALENE FLAKES. Useful in controlling Gladiolus thrips, Cyclamen thrips, together with certain soil insects. Lb., 15c; 5 lbs., 65c; 25 lbs., \$2.75.

NICO-FUME PRESSURE FUMIGATOR. 1-lb. can will fumigate between 25,000 and 30,000 cubic feet of greenhouse space. 1/2-lb. can, 45c; 1-lb. can, 75c.

NICO FUME. Liquid. An effective vaporizing liquid. Lb., \$2.25; 4 lbs., \$5.75; 8 lbs., \$10.00.

NICO-FUME POWDER. High-strength tobacco powder fumigant. 5 lbs., \$3.35; 10 lbs., \$5.85.

PARA-DICHLOROBENZENE. For killing the peach tree borer. Can be used successfully only during August and September as it is not effective if used at other seasons. Do not use on very young trees. Per lb., 40c; 5 lbs., \$1.75; 10 lbs., \$3.25.

PARIS GREEN. For use on potatoes, tobacco, also to mix with arsenate of lead for fruit tree spraying where quick results are necessary. 1 lb., 50c; 5 lbs., \$2.00.

POMO-GREEN WITH NICOTINE. The leaf-green all-in-one Dust or Spray. A combination material which controls fungus diseases, and kills both leaf eating insects and aphids. Leaf-green in color and never unsightly on plants. May be used for dusting or spraying. Lb. can, 75c; 5-lb. can, \$3.00.

RED ARROW. A contact insecticide that may be used upon tender foliage and flowers without burning or staining. Economical to use, being decidedly effective at dilutions of one to five hundred. Oz., 35c; 4 ozs., \$1.00; pt., \$2.50; qt., \$4.00; gal., \$12.00.

SCALECIDE. A complete dormant spray for San Jose scale, and other orchard pests. Qt., 65c; gal., \$1.55; 5 gals., \$5.50; 10 gals., \$9.50; 15-gal. drum, \$13.25; 30 gals., \$21.00; 50 gals., \$29.00.

SELOCIDE. Kills red spider. 1 qt., \$1.25; 1 gal., \$3.25.

SLUG SHOT. One of the best known remedies for Cabbage and Currant Worms as well as other leaf-eating insects. Harmless to humans. Lb., 25c; 5 lbs., \$1.00; 25 lbs., \$4.00.

SNAROL. An effective bait for controlling Cutworms, Grasshoppers, Snails, Slugs, and Sow Bugs. Not injurious to plants. 1 1/2 lbs., 35c; 4 lbs., 85c; 15-lb bag, \$3.00.

SULPHUR. Powdered. For mildew. 3 lbs., 35c; 10 lbs., 85c; 25 lbs., \$2.00; 100 lbs., \$7.50.

SULFORON. The wettable sulphur. For control of mildew on roses and similar diseases on other ornamentals. 4-lb. pkg., 50c.

TAT. Destroys all species of ants. Trap contains two baits, attractive to both sweet and grease eating ants. Single trap, 25c.

TERRO ANT KILLER. Small bottle, 25c; 2 ozs., 50c.

TREE TANGLEFOOT. A paste preparation painted around the trunks to keep caterpillars, etc., from crawling into the trees. One pound makes from 12 to 15 lineal feet of band. 6 ozs., 25c; 1 lb., 60c; 5 lbs., \$2.75; 10 lbs., \$5.25; 25 lbs., \$11.00.

TREE WOUND PAINT. Prevents decay after pruning. This penetrating, antiseptic paint is not affected by heat, cold or moisture. Does not peel, crack or get brittle. Stops tree bleeding. 1 pint, 60c; 1-qt. can, \$1.00; 1-gal. can, \$3.00.

TRI-O-GEN.—Rose Garden Spray. Affords definite protection against practically all insects and fungus diseases in the rose garden. Trial size, \$1.50; Standard size, \$4.00; Large Outfit, \$6.00; Estate kit, \$20.00.

VOLCK, NURSERY. Effectually controls aphid, mealy bug, white fly, thrips, etc., while for red spider and scale insects upon evergreens it is unequalled. Does not discolor foliage. 1/2 pt., 35c; qt., 75c; gal., \$2.00; 5 gals., \$6.25.

WEED KILLER. A highly concentrated solution which dilutes one part to 49 parts of water. It kills every known variety of weed, with its roots and seeds as well. Just apply with ordinary sprinkling pot. 1 qt., 55c; 1 gal., \$1.75; 5 gals., \$6.75. Price on larger sizes on application.

KILLER KEMICAL will rid your lawn of dandelions and keep them out regardless of conditions on adjacent property. Easily applied with the Killer Kane. Try this new marvel.

Killer Kits (Kane and 1/2 gal. Kemical), \$1.95.

Killer Kemical. 1/2 gal., \$1.25; 1 gal., \$2.00; 5 gals., \$8.75.

Killer Kane. \$1.00.

Junior Outfit. Includes 1-qt. can of Killer Kemical with special nozzle attachment. 85c.



SEED DISINFECTANTS

Improved SEMESAN BEL

For Seed White Potatoes

A disinfectant for the better control of seed-borne rhizoctonia and scab than the old soak treatment. One pound of New Improved Semesan Bel treats 60 to 80 bushels of seed potatoes. Full directions with each package.

Prices: 4 ozs., 50c; 1 lb., \$1.65; 5 lbs., \$7.00; 25 lbs., \$31.25; 100 lbs., \$120.00. Free pamphlet.

New Improved CERESAN

A New Low Cost Grain Disinfectant.

Costs only 1 1/8 to 2 1/3 cents per bu. Unusually effective in controlling bunt or stinking smut of wheat, covered smut and stripe of barley, and oat smuts. One pound treats 32 bushels of wheat, oats or barley. Full directions with each package. Prices: 1 lb., 75c; 5 lbs., \$3.00.

SEMESAN

For Flower and Vegetable Seeds

Prevent the many damaging diseases of flowers and vegetables that are carried on the seed, by disinfection of the seed with Semesan. Recommended especially for seeds, bulbs, gladiolus corms, dahlia tubers, and rose bushes. Easily applied as a liquid or dust. One pound treats 15 to 30 pounds of seed. Directions in every can.

Prices: 2 ozs., 50c; 1 lb., \$2.50; 5 lbs., \$11.75; 25 lbs., \$46.25. Free pamphlet.

New Improved SEMESAN, Jr.

For Seed Field and Sweet Corn.

Treatment costs less than 3 cents per acre. Easily and quickly applied as a dust at the rate of 2 ounces per bushel of seed.

Prices: 4 ozs., 35c; 1 lb., \$1.00; 5 lbs., \$4.75; 25 lbs., \$23.25. Free pamphlet.

SEMESAN or NU-GREEN

For Successful Prevention and Control of Brown Patch on Lawns and Golf Courses.

One pound of Semesan or Nu-Green in 50 gallons of water treats 1000 square feet of turf by sprinkling. Applied with a power sprayer, 50 gallons of Semesan cover 2000 to 3000 sq. ft.; 50 gallons of Nu-Green solution 1500 to 2000 sq. ft.

Prices, Semesan: 2 ozs., 50c; 1 lb., \$2.50; 5 lbs., \$11.75; 25 lbs., \$46.25; 100 lbs., \$180.00. Nu-Green: 5 lbs., \$7.00; 25 lbs., \$30.00; 100 lbs., \$115.00. Free pamphlet containing description of the symptoms of various types of diseases causing Brown Patch, also a program for their prevention and control.

Fertilizers for Lawn and Garden



The Complete Balanced PLANT FOOD

for Lawns, Flowers, Shrubs, Trees and Vegetable Gardens



Growing things respond quickly when given this excellent plant food. You can expect better results when you use SACCO.

Clean, odorless, easy to use. Complete directions for applying in each bag.

1-lb. can	\$0.10
5-lb. bag40
10-lb. bag70
25-lb. bag	1.40
50-lb. bag	2.35
100-lb. bag	3.95

ADCO. The addition of Adco to the compost pile or to other vegetable refuse, grass clippings, leaves, etc., using two pounds to each wheelbarrow load of refuse, will produce a clean, odorless manure within three to four months. 25 lbs., \$2.00; 150 lbs., \$10.50.

ALUMINUM SULPHATE. A material used in creating acid soils, in which Azaleas, Rhododendrons, and similar plants are to be grown. Use one pound to 10 square feet of surface. 5 lbs., 40c; 10 lbs., 70c; 25 lbs., \$1.50; 50 lbs., \$2.50; 100 lbs., \$4.00.

AMMONIA SULPHATE. A readily soluble nitrogenous fertilizer analysing about 25% ammonia. 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00.

BLOOD MEAL. A quickly available, yet long lasting organic fertilizer. 5 lbs., 40c; 10 lbs., 75c; 25 lbs., \$1.75; 50 lbs., \$3.00; 100 lbs., \$4.90.

BONE MEAL. The fertilizer for all purposes; safe and effective. Especially good for use in the Rose garden, lawns and on flowering shrubs. 5 lbs., 25c; 10 lbs., 50c; 25 lbs., 95c; 50 lbs., \$1.60. Bag of 125 lbs., \$3.25.

CATTLE MANURE. Not pulverized, but rather shredded, making it a desirable fertilizer upon heavy clay or loose sand soils. Per bag of 100 lbs., \$2.25.

COTTON SEED MEAL. Rich in ammonia and potash, making an excellent organic fertilizer for ericaceous plants such as Laurel, Rhododendrons, Azaleas, etc. 5 lbs., 25c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00.

DRICONURE. Dehydrated cow manure, combined with peat moss. Lawn and garden dressing. Packed in bags weighing about 50 pounds—3 to 3½ bushels in bulk. Per bag, \$2.75.

Florida Humus

Florida Humus is humus in its purest, richest form—with a high content of organic nitrogen which makes it a plant food in itself. It is decayed vegetative mold from underwater deposits where, for centuries, the life-giving organic matter has been sealed in and all weed seeds, waste and foreign matter sealed out. Air-dried and conveniently packaged, it is light, fluffy, clean, odorless—and more highly absorbent than any other humus known. **Florida Humus** will bring life to your soil—and to your lawn and gardens—because it increases the water-holding capacity of the soil . . . prevents packing of heavy soils . . . builds up sandy soils . . . promotes bacterial action . . . and supplies natural organic nitrogen. Its benefits are both immediate and lasting.

100-lb. boxes, \$2.50 each; per ton, \$40.00. 200-lb. boxes, \$4.50 each; per ton, \$35.00.

PULVERIZED LIMESTONE. A Lawn and Garden Conditioner. For renewing old lawns, use at the rate of 100 pounds for each four hundred square feet. For new lawns, give a generous coating at the rate of 1,000 to 2,000 pounds per acre for sandy soils, and 2,000 to 3,000 pounds per acre for clay soils. Per bag of 80 lbs., \$1.00; 5 bags, \$4.00; 10 bags, \$7.00.

MURIATE OF POTASH. The essential element for the proper development of all root crops. 5 lbs., 30c; 10 lbs., 55c; 25 lbs., \$1.00; 50 lbs., \$1.90; 100 lbs., \$3.25.

WEDO

WEDO is a fertilizer made specially for grass. You are assured of finer results from its use. The cost?—more per pound because it is made from finer materials—but, less per area because less than one-half the amount is required—only 1½ lbs. per 100 sq. ft. A trial will convince you.

Helps to control weeds!

10-lb. bag	\$0.80
25-lb. bag	1.65
50-lb. bag	2.75
100-lb. bag	4.75

NITRATE OF SODA. Where quick succulent growth is desired, such as with Lettuce, Spinach, etc., Nitrate of Soda is particularly valuable. 5 lbs., 30c; 10 lbs., 50c; 25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00.

PHOSPHATE, SUPERPHOSPHATE (16% Acid Phosphate). The rapid development of plants with a corresponding stimulation of flower production are qualities that may be attributed to phosphates.

5 lbs., 25c; 10 lbs., 40c; 25 lbs., 80c; 50 lbs., \$1.35; per bag of 125 lbs., \$2.25.

PLANTABES. A widely advertised fertilizer and stimulant in tablet form made especially for potted plants. Package of 30 tablets, 25c; 75 tablets, 50c; 200 tablets, \$1.00; 1000 tablets, \$3.50.

IMPORTED GRANULATED Peat Moss or Bulb Fibre

This Granulated Peat Moss or Mull is especially selected for horticultural purposes. It is finely granulated, of little weight, and is entirely free from foreign matter. It is packed in compressed bales, burlapped on all sides, studded and wire-strapped. When loosened the contents will cover 240 sq. ft., 1 inch deep. It is not sold by weight, because the weight of the bale is dependent on its moisture content, which varies according to atmospheric conditions.

A few of the many purposes for which it is used: fertilizer carrier, mulching, cold frames, lawns, improving soils, propagating, cuttings, landscape work, benches (greenhouse), golf courses, packing, storing bulbs, potting, layering, seed beds, etc. Send for booklet giving detailed information.

Two-bushel garden package, \$1.50; large bale, about 20 bushels, \$3.50; bale, about 15 bushels, \$3.00.

SHEEP MANURE. One of the most used animal manures in the growing of flowers and upon lawns. 5 lbs., 30c; 10 lbs., 50c; 25 lbs., 90c; 50 lbs., \$1.50; 100 lbs., \$2.25.

SORBEX. Sorbex is manufactured from a specialized high quality moss peat—not to be confused with ordinary peat moss. Sorbex is ground 25 times finer than any peat moss. This is important; it will blend with soils. For larger and finer root systems, always mix Sorbex in the soil. Bag containing 10 bus., \$2.75.

MOSQUITOFF. Mosquitos, Blackflies instantly driven away. Pleasing odor, soothing. Harmless to the skin. Per bottle, 35c.

PLANT MARVEL. Ensures bushy ferns and healthy flowers and plants. It is a pure, rich, quick-acting plant tonic and contains 61.30 per cent of plant food. Begins to feed instantly. Nourishes continuously and plentifully. Package, 25c; ½ lb. container, 60c; 1-lb. container, \$1.00. The \$1.00 size is the most economical.

TOBACCO DUST. A good remedy for green fly, aphids, fleas, beetles, etc. 1 lb., 10c; 3 lbs., 25c; 10 lbs., 65c; 100 lbs., \$4.50.

TOBACCO STEMS. Used for fumigating plants to kill insects, and as a mulch for roses, asters, lettuce, etc. Bale of about 100 lbs., \$2.00.

VIGORO, the complete plant food made by Swift, contains all of the elements plants must get from the soil. Four pounds of this sanitary, odorless plant food per 100 square feet of lawn or garden area assures well-nourished plants.

50 lbs. 2.50 25 lbs. \$1.50 5 lbs. \$0.50
100 lbs. \$4.00 10 lbs.85 12 ozs.10

HORTICULTURAL TOOLS AND SUPPLIES

DIBBLES. Iron with wood handle. For transplanting plants and planting bulbs. Each, 75c.

FRUIT PICKER. Made of galvanized steel wire; attaches to pole of any length. Price without pole, 75c.

GLASS CLOTH. A substitute for glass. Per yard, 25c; 10 yds., \$2.20; 100 yds., \$18.00.

National Eezy Wear Garden Gloves

WASHABLE! Sizes, for women: "Small," "Medium," "Large". For men: "Medium" and "Large". Price, 75c a pair; 2 pairs, \$1.40, postpaid.

"ACME" FLOWER SHEAR FOR THE GARDEN. This improved flower shear cuts and holds flowers after cutting. Use one hand in cutting and the shear holds the flower. It's a time saver—particularly advantageous in cutting roses. Has nickel-plated blades and green enamel handles. An indispensable garden tool. Each, 49c.

DOO-KLIP GRASS SHEAR. Prevents blisters, wrist tire and skinned knuckles. Arm and hand always in a natural position. Blades of case-hardened, rust-resisting steel. No adjustments to make. Each, \$1.50.

DOO-KLIP LONG HANDLE GRASS SHEAR. User stands erect. Only one handle—no extra levers to operate. Each, \$2.50.

CANE STAKES, JAPANESE BAMBOO. Dyed green.

3 ft. 10c doz.; 60c per 100

4 ft. 15c doz.; 75c per 100

CANE STAKES, JAPANESE BAMBOO. Natural color. Strong, light, durable, for supporting plants.

6 ft. \$1.75 per 100

8 ft. \$2.00 per 100

DAHLIA STAKES. Wooden, painted green, tapering at end.

6 ft. long, $\frac{1}{2}$ inch thick. 8c each; \$7.00 per 100.

WATERING POTS. Long spout. Made from best quality of iron and heavily galvanized. Two roses with each pot for fine and coarse watering.

4-qt. \$4.25

6-qt. 4.50

8-qt. 5.00

10-qt. 5.25

RITTENHOUSE MOLE TRAP. The simplest, safest and surest mole trap ever invented. No danger of its going off unless the trigger is touched. Made of all steel and tinned. The spears are spring steel, therefore do not have to be as long as soft steel. Price, 95c.

MOSS, GREEN SHEET. For hanging baskets, etc. Per bale, 35c; large bundle (5 bales), \$1.50.



Germaco Hotkaps

An "Individual Hothouse" For Every Plant.

—BIGGER CROPS—

THREE WEEKS EARLIER!

GERMACO HOTKAPS guard plants against frost, wind, rain, insects, etc., by completely covering them.

They maintain a perfect mulch around each plant. Crops give a 10 to 25 per cent greater yield and mature 2 to 3 weeks earlier—for higher prices.

HOTKAPS are patented wax paper cones—placed over plants or seeds at time of planting. Inexpensive, easy to use. One man can set over 2,500 per day.

PRICES: 1000 for \$9.75; 250-package with setter and tamper, \$3.65; 100-package with setter and tamper, \$2.40; steel setter and tamper, \$1.50; garden setter (heavy paper), 50c. Postage extra.

Labels

100 1000

TREE LABELS.

3 $\frac{1}{2}$ inch, copper wired \$0.30 \$2.75

POT LABELS.

4 inch25 2.50

5 inch30 2.75

6 inch35 3.00

	100	1000
GARDEN LABELS.		
8 inch75	\$6.75	

10 inch90	8.00	
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PLANT LABELS. Waterproof, white celluloid. No. 1, 3 $\frac{1}{2}$ inch. 50c per doz.; \$3.00 per 100.

PLANT LABELS. Weatherproof, green celluloid. No. 31, 3 $\frac{1}{2}$ inch. 45c per doz.; \$2.50 per 100.

ROCK GARDEN LABELS. Weatherproof, green celluloid. No. 51, 4 $\frac{1}{2}$ inch. 50c per doz.; \$3.00 per 100.

GARDEN LABELS. With stakes 24 inches long, for permanent markings. Weatherproof, green celluloid cards. No. 10, 2 $\frac{3}{4}$ x 1 $\frac{1}{2}$ inches. 25c each; \$2.50 per doz.

Dunham Water-Weight Lawn Rollers

The Dunham Water-Weight Roller can be made as heavy or as light as desired by simply putting in the right amount of water. For storing away or for moving, it can be emptied entirely and is light and easy to handle.

	Wt. Dia.	Wt. Length	Empty	Filled	Price
2	14 in.	24 in.	60 lbs.	175 lbs.	\$ 8.50
4	18 in.	24 in.	82 lbs.	265 lbs.	10.50
7	24 in.	24 in.	110 lbs.	420 lbs.	15.50

The above rollers weigh 50% more when filled with sand—water is more convenient.

NEPONSET WATERPROOF PAPER FLOWER POTS. Lower in cost than earthen pots and unbreakable. Domestic and commercial gardeners need the efficiency and convenience of the light weight, economical Neponset Pot. Excellent for growing, storing, shipping and miscellaneous purposes. Made of tough, waterproof paper that gives to them a lasting strength. They permit speed in handling, and if desired, it is easy to remove plants from them.

Size	Doz.	100	1000
2 $\frac{1}{4}$ -inch		\$0.10	\$0.60
2 $\frac{1}{2}$ -inch		10	.70
3 -inch		15	.80
3 $\frac{1}{2}$ -inch		20	1.00
4 -inch		25	1.20

CYCLONE BROADCAST SEED SOWER. A general seeder, which has four pressed tin flanges and distributing wheel under the bottom; gearing wheel centered, making it easy to run. Has an accurate gauge. Sloping feed board and force-feed steel frame. This is one of the most widely used types. The sack holds one-half bushel; convenient hand hold and body shield. The machine is well braced. Price, \$2.50.

TIN HORN SEED SOWER. A light, accurate seeder which will broadcast clean seed from 30 to 40 ft. Length of the tube when extended is 30 inches. Good grade of heavy ducking is used on the sack. Weight only 12 ounces. Price, 90c.

THE SACCO SPREADER. Model 3318. Instantaneous feed control from handle. Simple adjustment for regulating quantity. Saves time and materials.

18-in. Spreader \$ 3.50

30-in. Spreader (with regular wheels). 14.50

NOC-OUT FERTILIZER and LAWN SEED DISTRIBUTOR. For easy, uniform distribution of commercial fertilizer or lawn grass seed. An inexpensive time and labor saving device. Each, \$1.25.

SPRA-BULB—For Powder or Water. A rubber bulb sprinkler for spraying plants, moistening laundry and spraying powder on plants or animals. Designed for instant filling. The spray head comes out like a cork and the liquid or powder is sucked in through the open neck of the bulb. Each, 50c.

PLANT TUBS. An excellent new tub, cheap, neat and durable. Made from $\frac{3}{4}$ -inch cypress.

	Diameter	Depth	Each
No. 3.	8 in.	8 in.	\$0.80
No. 5.	10 in.	9 in.	1.00
No. 7.	12 in.	11 in.	1.50
No. 9.	14 in.	13 in.	2.00
No. 11.	16 in.	15 in.	2.50
No. 13.	18 in.	17 in.	3.50
No. 15.	20 in.	19 in.	4.75

Handles, 35c per pair extra.

All Prices Subject to Market Changes.

HUDSON SPRAYERS

HUDSON PERFECTION SPRAYER. Capacity 4 gallons, equipped with 2-ft. brass extension rod and Perfection automatic shut-off brass disc nozzle.

No. 110-BF Perfection. Copper tank. Each, \$9.60.

No. 110-GF Perfection. Galvanized tank. Each, \$6.25.

HUDSON JR. SPRAYER. Capacity 2 $\frac{1}{2}$ gals., equipped with 2-ft. brass extension rod and Perfection automatic shut-off brass disc nozzle.

No. 140-BF Junior. Copper tank. Each, \$6.85.

No. 140-GF Junior. Galvanized tank. Each, \$4.50.

HUDSON CLIMAX SPRAYER. Capacity 3 $\frac{1}{2}$ gallons, equipped with 18-inch curved brass extension rod and Perfection automatic shut-off brass disc nozzle.

No. 135-GF Climax. Galvanized tank. Each, \$3.75.

No. 135-BF Climax. Copper tank. Each, \$6.00.

HUDSON THRIFTY SPRAYER. Capacity 2 $\frac{1}{4}$ gallons, equipped with 18-inch curved brass extension rod and Perfection automatic shut-off brass disc nozzle.

No. 120-GF Thrifty. Galvanized tank. Each, \$3.60.

No. 120-BF Thrifty. Copper tank. Each, \$5.50.

HUDSON CRITIC SPRAYER. A continuous sprayer with glass tank and double nozzle to spray ahead or up.

No. 427-G Continuous. Each, \$1.20.

HUDSON VAPOR SPRAYER. An excellent small sprayer for either household or garden use. Capacity $\frac{3}{4}$ pint.

No. 222 Vapor. Each, 25c.

HUDSON HANDY SPRAYER No. 440. Capacity 1 quart. Each, 35c.

HUDSON GLASS JAR SPRAYER. Capacity 4 $\frac{1}{2}$ ounces.

No. G3 $\frac{1}{2}$. Each 20c

"JAKE" COMPRESSED AIR SPRAYERS Continuous. Equipped with nozzles to spray up and ahead.

No. 50-G. Tin pump and galvanized container. Each, \$1.00.

No. 50-B. Brass pump and container. Each, \$1.50.

No. 80-Superior. Gives a powerful spray. Easy to operate. Has a galvanized container. Capacity $\frac{1}{2}$ gal. Each, \$1.35.

PARAGON SPRAYERS No. "0". Capacity 3 $\frac{1}{2}$ gallons. Equipment, 4 ft. of special spray hose, 3 ft. spray pipe, 3 spray nozzles. Each, \$10.95.

No. "1". Capacity 6 gallons. Equipment, 5 ft. special spray hose, 5 ft. spray pipe, 3 nozzles. Net price, \$15.35.

No. "3". Capacity, 12 gallons. Equipment, 10 ft. special spray hose, 7 $\frac{1}{2}$ ft. spray pipe, 3 spray nozzles. Net price, complete, \$19.75. Without truck, \$16.25.

No. "4". Capacity, 28 gallons. Equipment, 20 ft. special spray hose, 10 ft. spray pipe, 3 spray nozzles. Net price, complete with barrel, \$35.00. Not mounted on wheels, \$26.50.

No. "5". Capacity, 50 gallons. Equipment, 25 ft. special spray hose, 10 ft. spray pipe, 3 spray nozzles. This sprayer has an all-brass pump and large air chamber mounted in a strong barrel but not on wheels. Positively the best hand-power sprayer for extensive tree spraying. Net price, \$40.00.

DUSTERS **MAJOR DUSTER.** For all powder insecticides. Has large powder reservoir. Strainer shaped to prevent clogging and give uniform volume of discharge. Over-all length is 14 inches. Each, \$1.00.

HUDSON CADET DUSTER. Adapted for use with all insect powders. A favorite with the housewife in applying roach, ant and various bug powders. Powder reservoir, 1 $\frac{1}{4}$ inches diameter, 5 inches long. Each, 30c.

SIGNAL DUSTER. Convenient and economical to use because of its size and ease of operation. Powder reservoir, 1 $\frac{1}{2}$ inches diameter, 3 inches long. Each, 30c.

MODEL BX FEENY DUST GUN. The Feeny Dust Gun emits powder in clouds of right consistency from any position and in any direction, downward, upward or horizontal. Entirely different principles than have been used heretofore on such outfits. Model BX. 28 inches long \$0.90. Model D. Two-quart capacity 2.60

JANUARY, 1936

"OUR SEEDS GROW FRIENDS"

We want to thank all our old friends for their wonderful loyalty and the many kind words spoken for our Seeds, Bulbs and Plants. To our new friends we wish to thank you for your part in making the past year one of our busiest seasons.

Suggestions for Ordering

All varieties of Flower and Vegetable seeds are numbered. Our order sheet is arranged to save you the time and trouble of writing the names of the seeds in full.

If you send your order early the benefit will be mutual. You will have your seed on hand when the planting season arrives and it will enable us to get it out before the "please rush" time arrives.

Write your name and address distinctly and in full, please use the order sheet and envelope inserted in this catalogue.

Seeds by Mail, etc.

PARCEL POST CHARGES have greatly lowered the cost of sending packages by mail. Most customers are no doubt familiar with charges from Cincinnati and that it depends on the weight of the package and the zone.

PACKETS AND HALF POUNDS ONLY OF BEANS, CORN, PEAS, AND ALL OTHER VARIETIES OF VEGETABLE AND FLOWER SEEDS WILL BE FORWARDED POSTPAID AT CATALOG PRICES, UNLESS OTHERWISE NOTED. GRASS SEEDS, CLOVER SEEDS, MISCELLANEOUS SEEDS, PLANTS, TOOLS AND SUPPLIES ARE NOT SENT FREE BY MAIL—SEE PARCEL POST RATES.

Parcel Post Rates

First Zone	within 50 miles.....
Second Zone	within 50 to 150 miles.....
Third Zone	within 150 to 300 miles.....
Fourth Zone	within 300 to 600 miles.....
Fifth Zone	within 600 to 1000 miles.....
Sixth Zone	within 1000 to 1400 miles.....
Seventh Zone	within 1400 to 1800 miles.....
Eighth Zone	all over 1800 miles.....

The above table will enable customers to remit the proper amount of postage. When seamless cotton bags are required they must be remitted for at 35c each. We reserve the right to advance or decline with the market on any item listed in this catalogue.

About Warranting Seeds

We have often been asked if we "Guarantee or warrant our Seeds." We beg to state plainly, we do not, for the reason that practical experience has assured us of the fact that crops may fail, no matter how fresh or pure the seed sown may be. We trust that our customers will fully realize that it is to our interest to send none but the best quality seeds.

To secure success, however, it is necessary that the customer should do his part well, or our good seeds will be ruined. With the best of management and good seeds there will be an occasional unaccountable failure. The best gardeners sometimes fail, and try again with seeds from the same lot with good results.

We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants we send out and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned. Purity and germination tests are for information only and without warranty.

THE J. CHAS. McCULLOUGH SEED CO.

First Pound (over 8 ozs. rates 1 lb.)	Each Additional Pound or fraction \$0.08 .08 .09 .10 .11 .12 .14 .15 \$0.01 .01 .02 .04 .06 .07 .09 .11
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Nasturtium, Dwarf Double Gem



Zinnia, Fantasy

FANTASY ZINNIA

An interesting new type with medium size, graceful, shaggy flowers. Colors include brilliant reds, orange, yellow, soft pink, and cream. Award of Merit, 1935 All-America Selections.

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Golden Globe \$0.20 Petunia Nana Compacta,
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UNIVERSITY OF CALIFORNIA
MIXTURE. An excellent mixture of Rust-Proof Snapdragons, containing a wonderful range of the popular colors.

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